

ENCLOSURE B

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**PMRF Command Brief
For U.S. Rep McIntyre
9 January 2013**

**CAPT Nicholas Mongillo
Commanding Officer PMRF**

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Brief History of Barking Sands

PACIFIC MISSILE RANGE FACILITY

1920s & 30s

Kauai's First Grass Airstrip

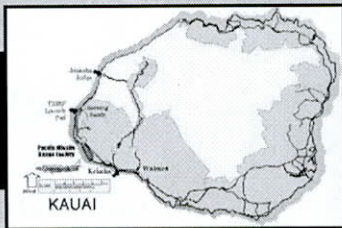


Southern Cross takes off on historic flight to Australia. Originating from Oakland Airport, San Francisco, the whole distance, was later calculated as 7,389 miles (11890 km), 83 hours and 11 minutes.

1940s

Mana Airport for Hawaiian and Pan American Airlines.

- WWII brought in the military presence
- Heavy Military Traffic
- Base population 6-8,000

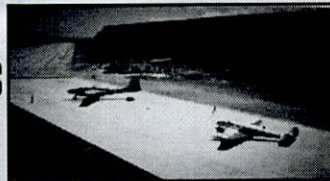


1950s



Navy enters Joint Use Agreement with USAF (1956)
1958: PMRF established

1960s



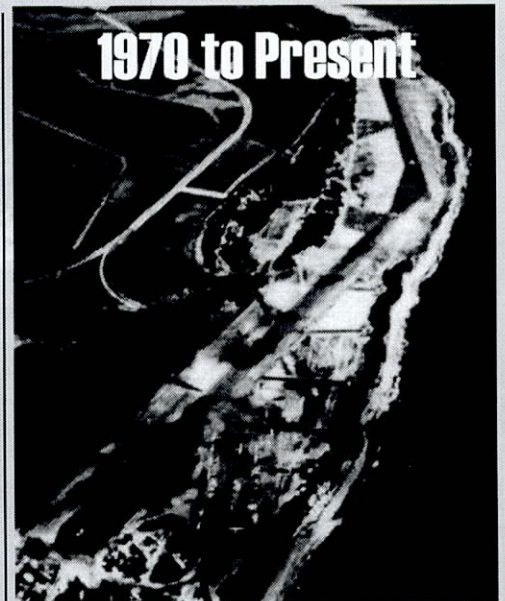
Bonham AFB

B-26 light bombers

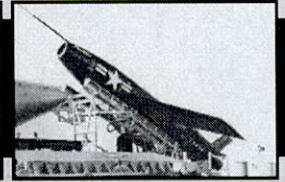
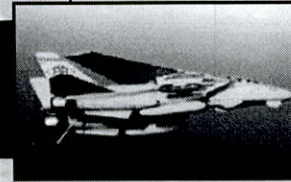
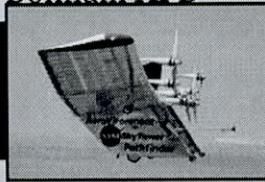
Significant expansion of mission, test sites, & capabilities

1964: USN assumes PMRF & Bonham AFB

1970 to Present



Navy becomes principle user with Training and Test & Evaluation



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1305 - 2

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PMRF's Mission and Vision

MISSION

PMRF enhances readiness of US and Allied forces by conducting safe and effective test and training events in an operationally realistic environment.

VISION

PMRF maintains its position as the leading multi-dimensional integrated test and training range, empowered by a dynamic workforce and state-of-the-art facilities, that ensures current and future force readiness, while being responsive to the community.



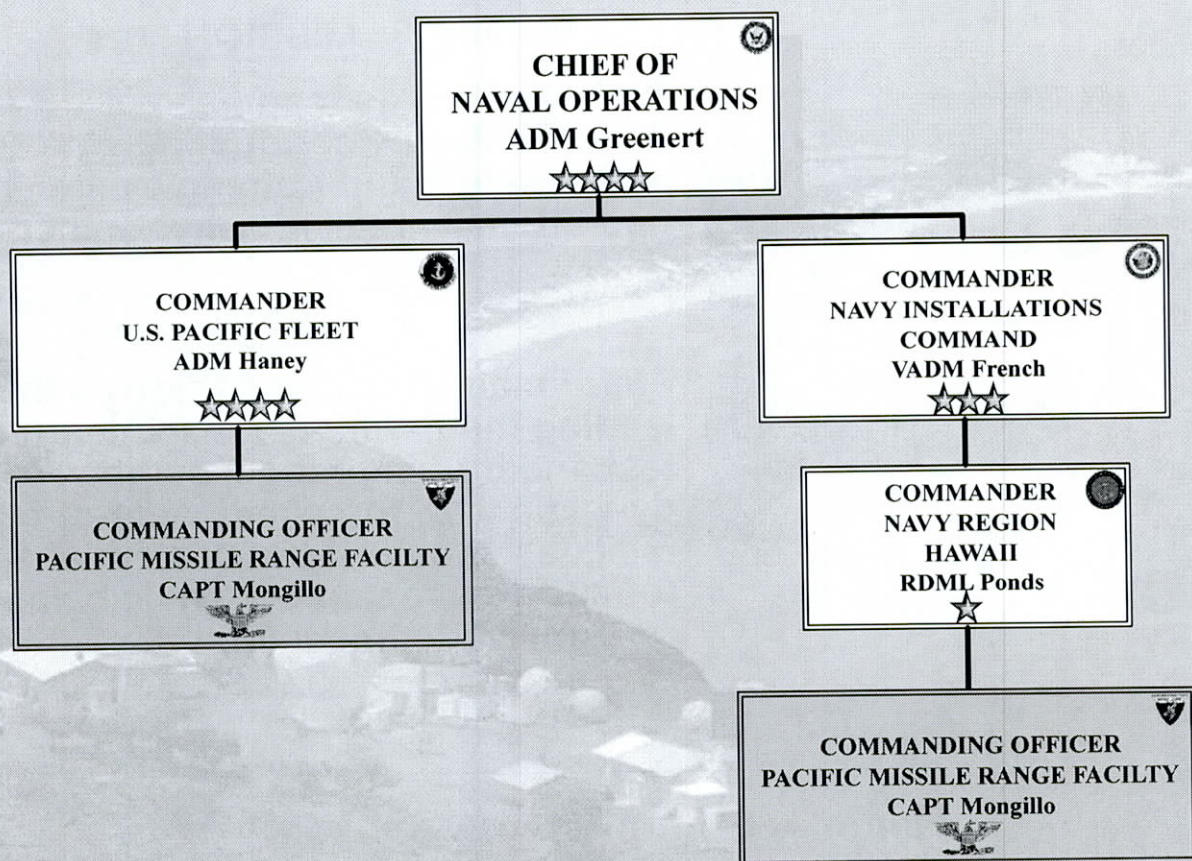
Honor -- Commitment -- Ohana

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PMRF Reporting Chain



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PMRF Range Complex



MAKAHA RIDGE



BARKING SANDS



KAMOKALA RIDGE



NIIHAU ISLAND



PORT ALLEN



MAUNA KAPU



MATSS



KOKEE PARK

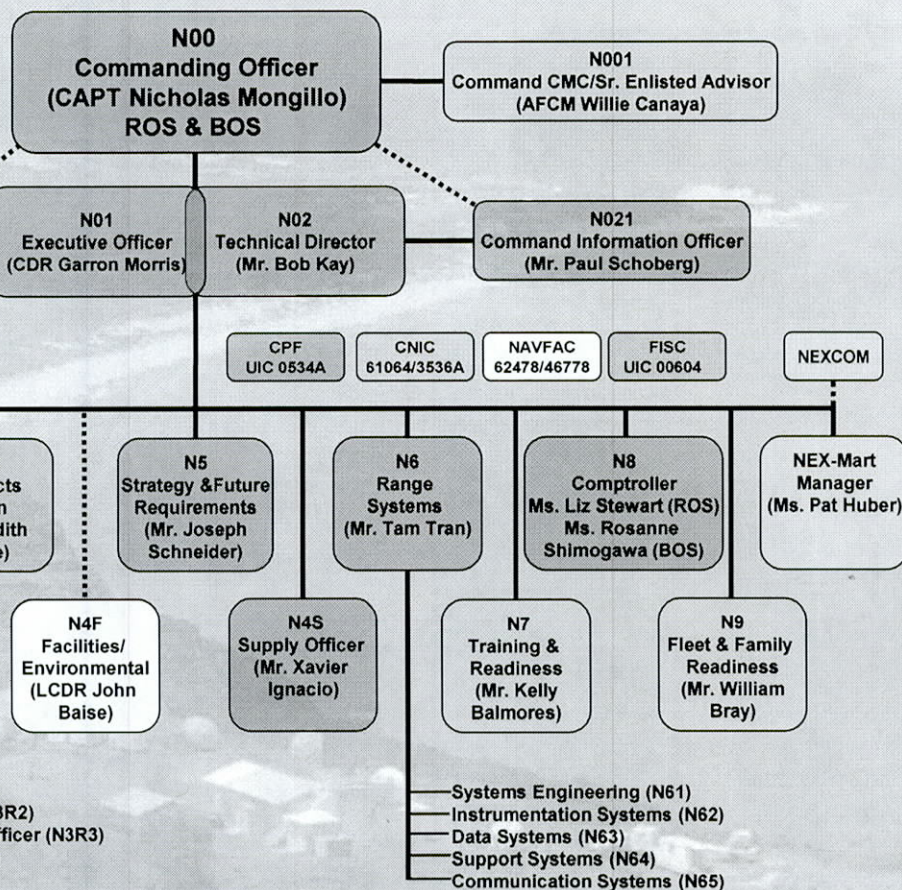
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PMRF Organization Chart

- Special Assistants (SAs have direct access to N00 on matters under their cognizance)**
- Staff Public Affairs (N00PA) (MC2 Diendorf)
 - Staff Protocol (N002) (Ms. Keiko Puu)
 - Staff Independent Duty Corpsman (N003) (HMC Oglesby)
 - Staff Legal (N011) (LT Fletcher)
 - Staff Security Manager (N012) (Mr. Mark Edgar)
 - Staff CCC (N013) (EN1 Davenport)
 - Staff DAPA (N014) (LT Cook)
 - Staff SWO (N015) (LCDR Johnson)
 - Staff Fitness Coord (N016) (HMC Oglesby)
 - Staff EMO (N017) (Mr. Bud Bouche)
 - Staff NOSH Safety (N018) (Mr. Ernest Sustaita)
 - Staff AT/FP Officer (N019) (MA1 Muzzana)
 - Staff Urinalysis Program Coord (N0110) (ASC Gillig)



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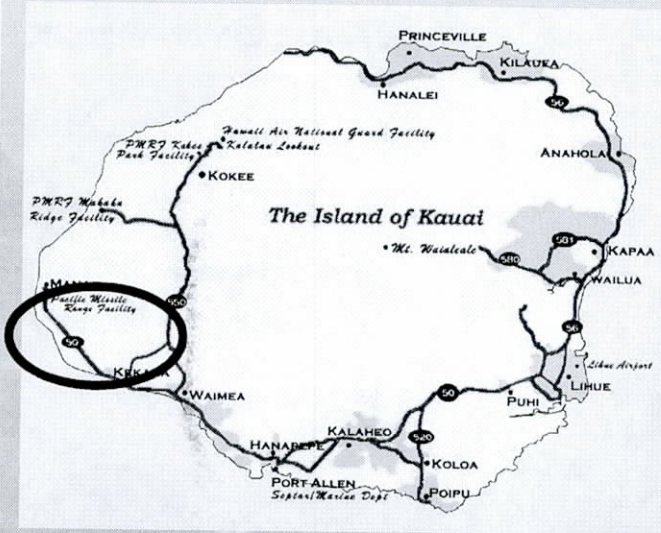
January 2013
1305 - 6



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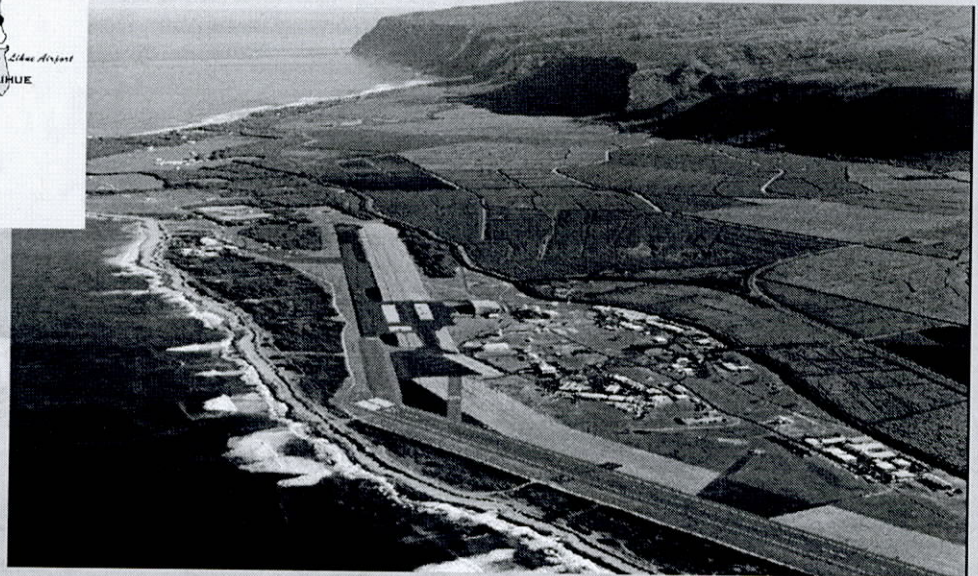
PMRF -

“Home” to ~1000 Employees



| | |
|------------------------------------|-------------|
| Military (Officers/Enlisted)..... | 60 |
| Civilian (DOD)/ MWR (GS)..... | 140 |
| Contractors, Tenants, and MWR..... | 800 |
| TOTAL | 1000 |

- Over 50% of our workforce has called Kauai home for more than 5 years
- 95% of workforce reside in community



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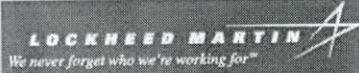
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Team Barking Sands



NORTHROP GRUMMAN

APPLIED RESEARCH LABORATORY
UNIVERSITY OF HAWAII



GENERAL DYNAMICS



Raytheon

SAIC
From Science to Solutions

PACIFIC MISSILE RANGE FACILITY
BARKING SANDS

KRATOS
DEFENSE & SECURITY SOLUTIONS

TEXTRON



NEX ACTA CSC



URS



Dynetics



LINCOLN LABORATORY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Booz | Allen | Hamilton

FORESTCITY



APL
The Johns Hopkins University
Applied Physics Laboratory

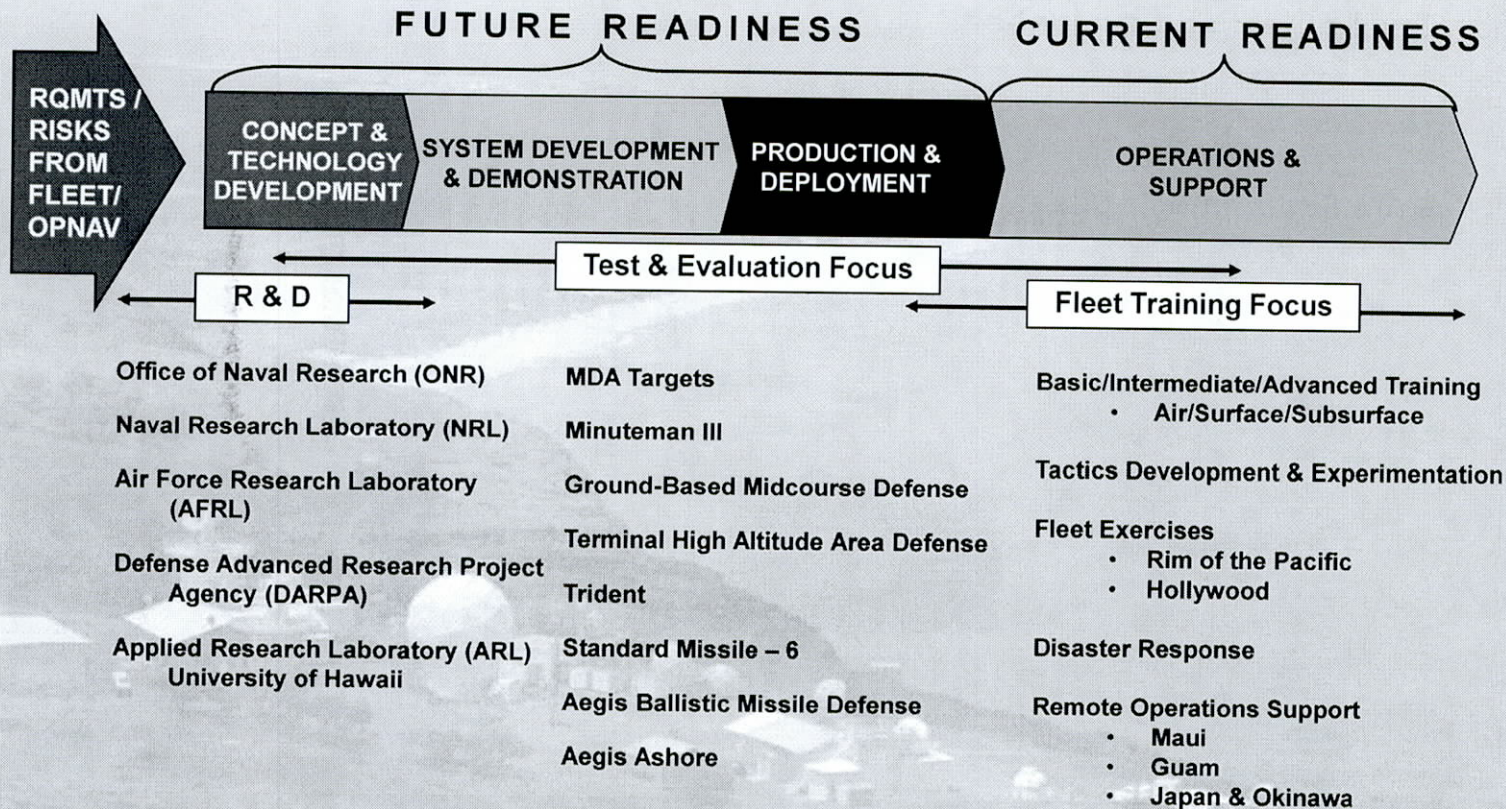
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PMRF Alignment with Acquisition Continuum



PMRF CONDUCTS OPERATIONS ACROSS THE ENTIRE NAVY READINESS ENTERPRISE

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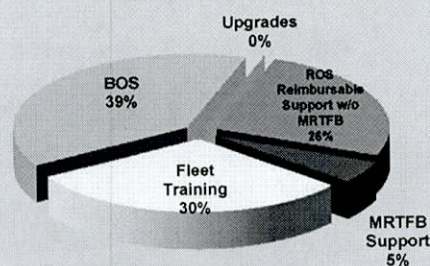
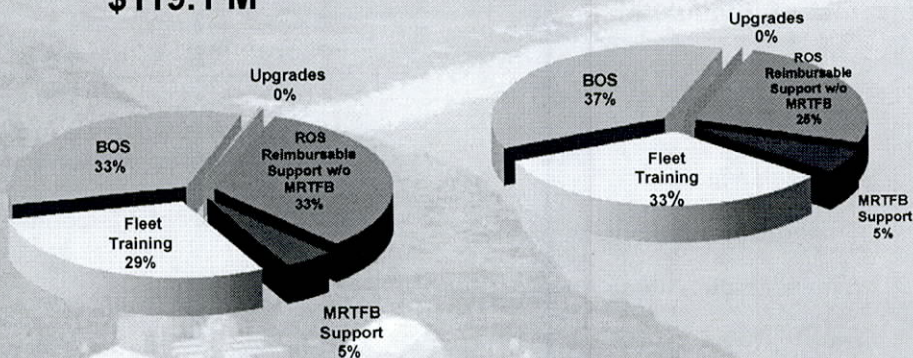
PMRF – Sustained Integrated Test & Training

PMRF is a mission funded Navy Training Range that also supports significant level of test and evaluation.

**FY12 Execution Total:
\$116.1 M**

**FY11 Execution Total:
\$119.1 M**

**FY13 Projected Total:
\$111.8 M**



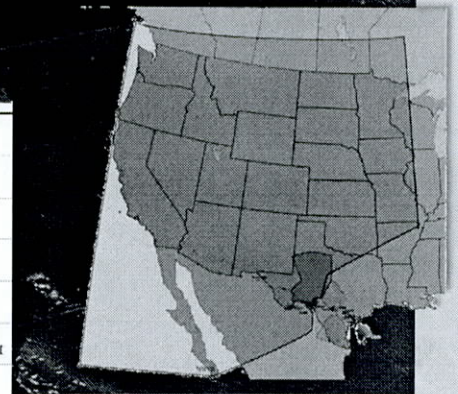
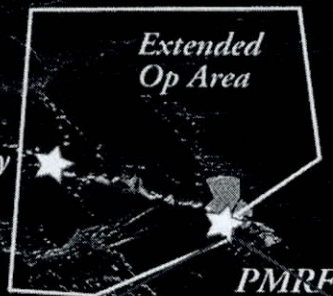
ROS: Range Operations Support
BOS: Base Operations Support
MRTFB: Major Range Test Facility Base

PMRF OPERATING AS AN INTEGRATED RANGE

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-
- Kodiak*
- Vandenberg
AFB*
- Pt. Mugu*
- Extended
Op Area*



1305 - 11

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Underwater Ranges

Total Area = 1100 Square Miles

- Largest Instrumented Underwater Range in the World
- Up to 12 Mk-84 Coded Pulse Pingers
- Splash Point Metric Location Capability
- Tracking: 10 feet - Splash Point: 30 feet

Barking Sands Underwater Range Expansion (BSURE)

Depths: 6,000 – 15,000 Feet
Area: 900 Square Nautical Miles
Hydrophones: 41 (Upgraded/Refurbished Oct 2010)

Barking Sands Tactical Underwater Range (BARSTUR)

Depths: 1,800 – 6,000 Feet
Area: 120 Square Nautical Miles
Hydrophones: 42

Shallow Water Training Range (SWTR)

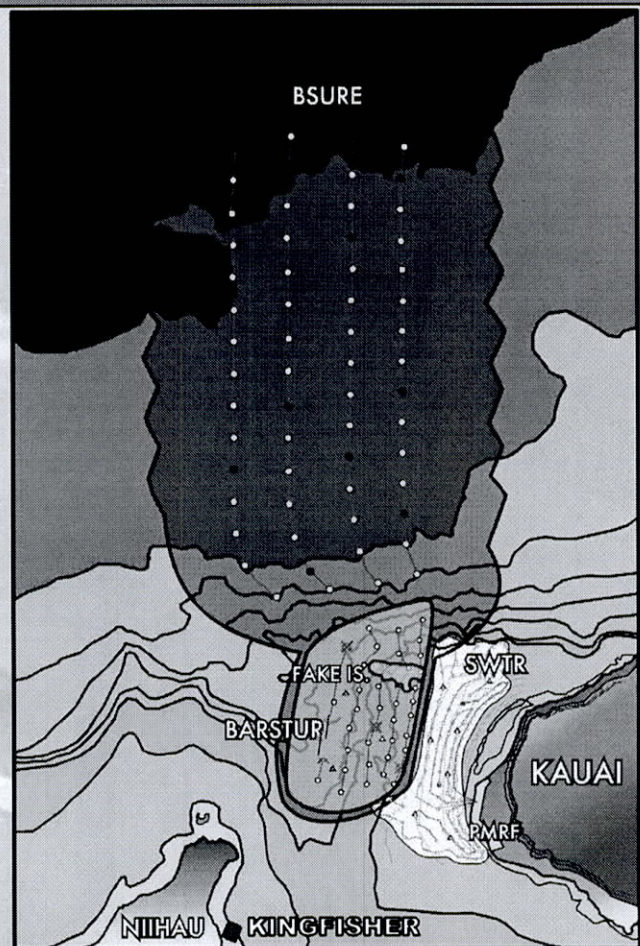
Depths: 129 – 1,800 Feet
Area: 80 Square Nautical Miles
Hydrophones: 118

Kingfisher Range

Depths: 80 Feet (Targets), 187-338 Feet (Water)
Mines: 5 MK 53 MOD 1 Exercise Mines
5 Commercial Subsurface Spherical Buoys

Underwater Ranges used for training/operations include:

- Sonar
- Torpedo Training (ASW Exercises/ASW Rodeo)
- Tactics (Combat System Ships Qualification Trials)
- Ship Detection
- Submarine Commanders Graduation Course (Hollywood)



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Joint / Combined Training Supporting Force Readiness Continuum

- Anti-Air Warfare
- Amphibious Warfare
- Anti-Surface Warfare
- Anti-Submarine Warfare
- Mine Warfare
- Strike Warfare
- Electronic Combat
- Naval Special Warfare
- Expanding in WESTPAC



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Rim of the Pacific (RIMPAC)



- **3rd Fleet sponsored biennial exercise (July 2014)**
- **PMRF - Location for live fire events / 2012 Totals**
 - Targets: 26 BQM, 6 MK-30, 2 AQM
 - 1200 Navy surface fire support rounds
 - 27 mines, 26 torpedoes, 21 fleet defense intercept missiles
 - 13 air-to-air missiles, 11 anti-ship missiles, 9 LGBs, 3 HARM
 - SINK-EX – 3 retired Navy vessels
- **RIMPAC 2012 – 22 participant nations**
 - >200 aircraft, 42 ships, 6 submarines, 25K+ personnel
 - Australia, Canada, Chile, Colombia, France, Japan, Mexico, New Zealand, Republic of Korea, Russia, Singapore, US, India, Indonesia, Malaysia, Netherlands, Norway, Peru, Republic of Philippines, Thailand, Tonga, United Kingdom
 - Observe: Bangladesh, Brunei, Brazil, Cambodia, Papua New Guinea, Vietnam, and Sri Lanka



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SCC (Submarine Commanders Course) *"Hollywood"*

- SCC conducted at PMRF 2x per calendar year (Feb/Aug)
 - 3 SSN submarines
 - 2-5 Surface Ships (periodically allies, i.e. Canada)
 - 20 P-3C sorties, 10 SH-60B sorties
- Final training phase sub prospective Commanding & Executive Officers
- Exercise support is 5 continuous days (24/7) around the clock support
 - 35-45 MK-48-6, 0-15 MK-46-5, 5-8 MK-54 exercise torpedoes
- Course Content
 - 6-9 Mini-Wars
 - 3 days off Maui (shallow water phase, each SSN fires up to 3 MK-48 vs MK-30)
 - Multiple, concurrent SUBEX (sub vs sub or MK-30 underwater target) events
 - Canadian participation typically 1/year, 1-2 ships, periodically a P-3C
 - AIRASWEX P-3C/SH-60 air drop torpedo events
 - Postex / Hotwash conducted on site with disembarked PCO/PXOs

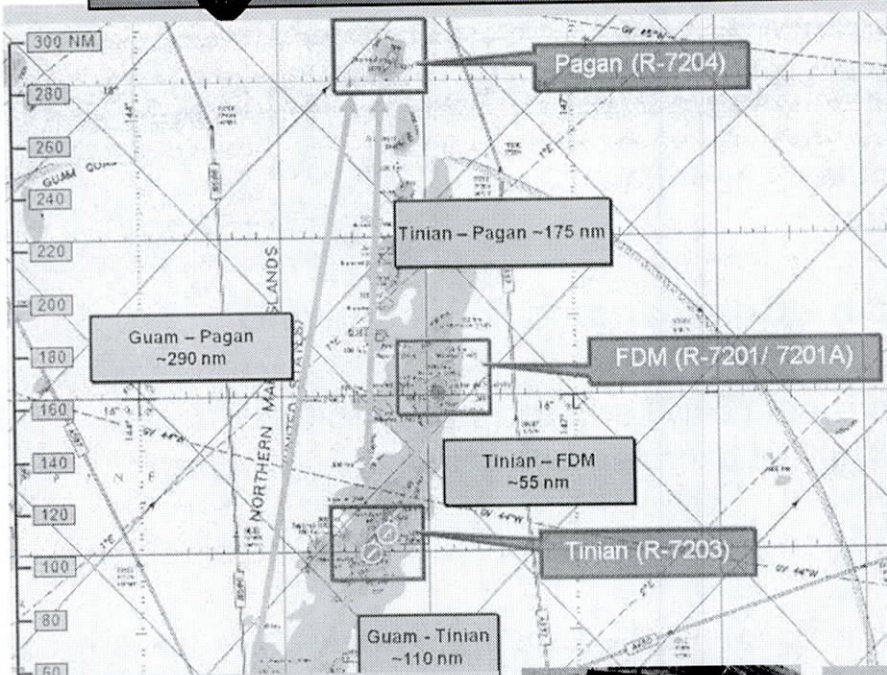


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WESTPAC Training

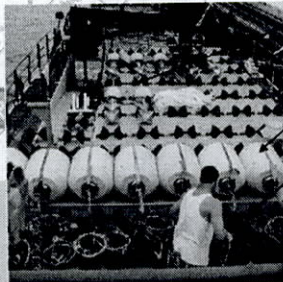
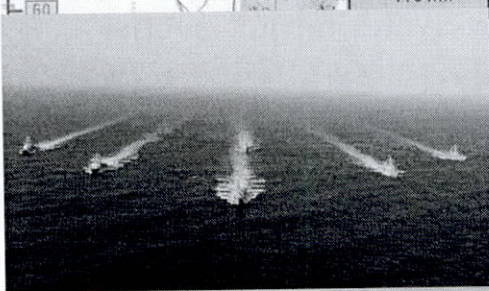


Current Training Ops:

- HSC-25 laser proficiency training 2x/mo
- Quarterly HSC-25 ASMEX (Hellfire)
- CSS-15/CSS-19 exercises
- Quarterly SUBPAC Tactical Rdy Evls
- 1-2 MULTI-SAIL events per year
- 2 electronic warfare exercises per year (Guam/Okinawa)

Additional Requirements:

- CVW-5 SFARP
- HSC-25 electronic warfare training
- 1st MAW/MAG-12 land/sea targeting



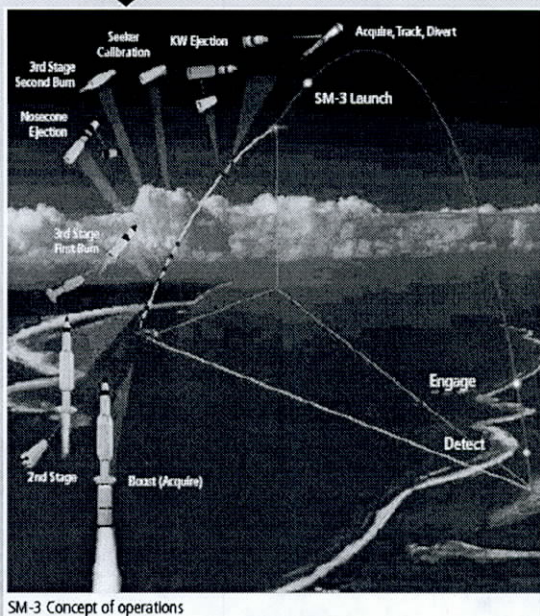
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MDA - Aegis BMD



SM-3 Concept of operations



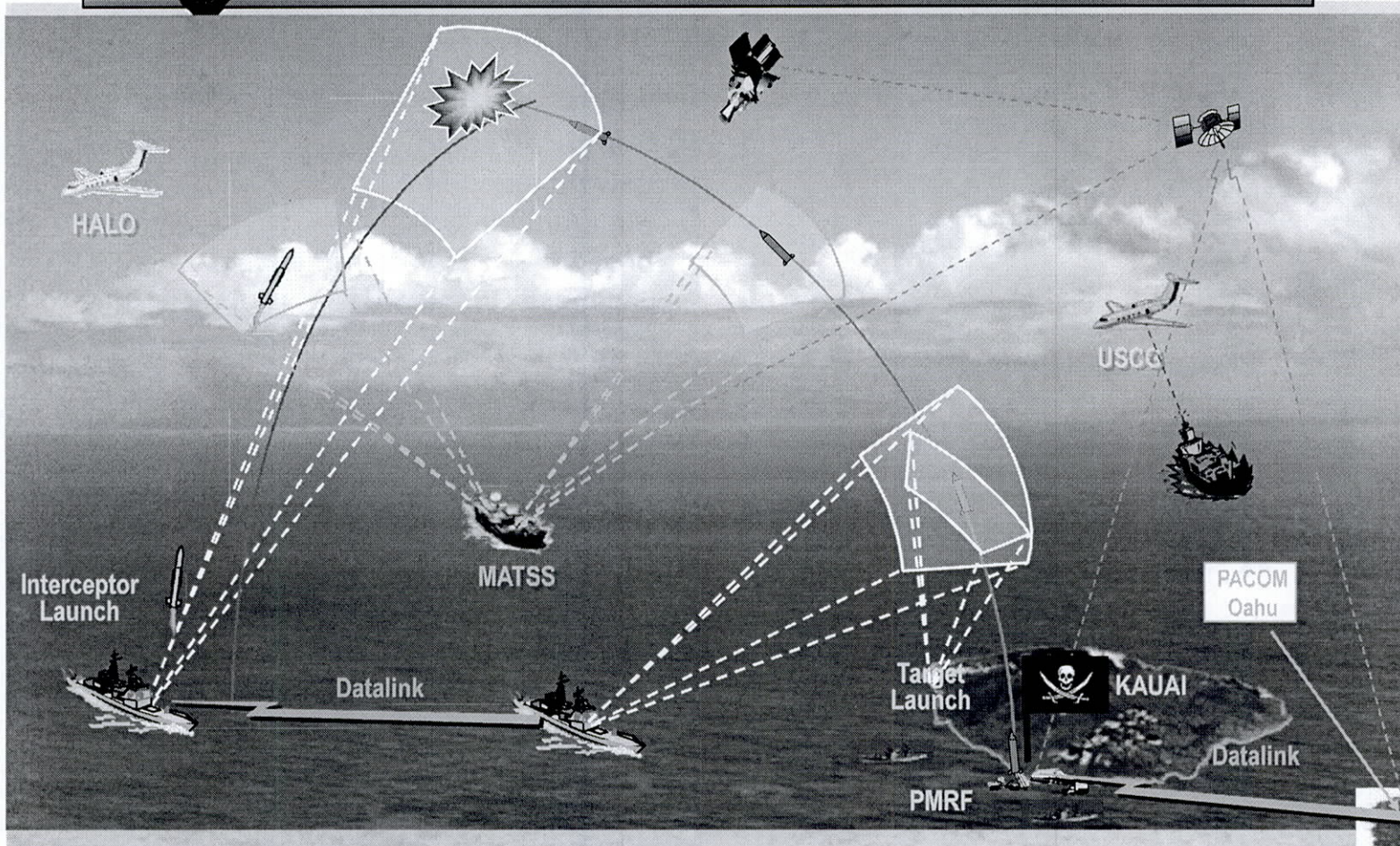
- Began trials in 1997
- Live Missile Launches starting 1999
 - 64 Support Events
 - » Low Altitude SM-2
 - » High Altitude SM-3
 - » Pre-RIMPAC Tracking Exercises
 - » Japanese Cooperative Development
- Intercepts 2002 to present
 - 24 SM-3 Hit to Kill Intercept Events
 - FY12/13 missions:
 - » FTM-16 E2 9 May 2012, Completed
 - » FTM-18 26 Jun 2012, Completed
 - » FTM-19 2 Feb 2013
 - » FTM-20 7 Feb 2013
 - » Test Campaign Apr/May 2013
- ABMD test op tempo steady in out years
 - ~2 campaigns per year (missions at RTS may impact number at PMRF)
 - Aegis 4.0.1 SM-3 Blk IB flights in support of full rate production milestone in FY-13

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Ballistic Missile Defense Aegis CG/DDG Scenario



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MDA - THAAD

- Moved to PMRF from White Sands Missile Range in 2006
- 1st Test at PMRF Jan 2007
- 9 THAAD Interceptor Launches (7 missions)
 - All Successful
- Last Mission: FTT-12 (OT)
 - Completed 04 Oct 2011
- Two year gap from FY12-14
- Per MDA Integrated Master Test Plan
 - Future THAAD missions on 18 month centers
 - Next PMRF Mission: 4QFY14 - FTT-11a

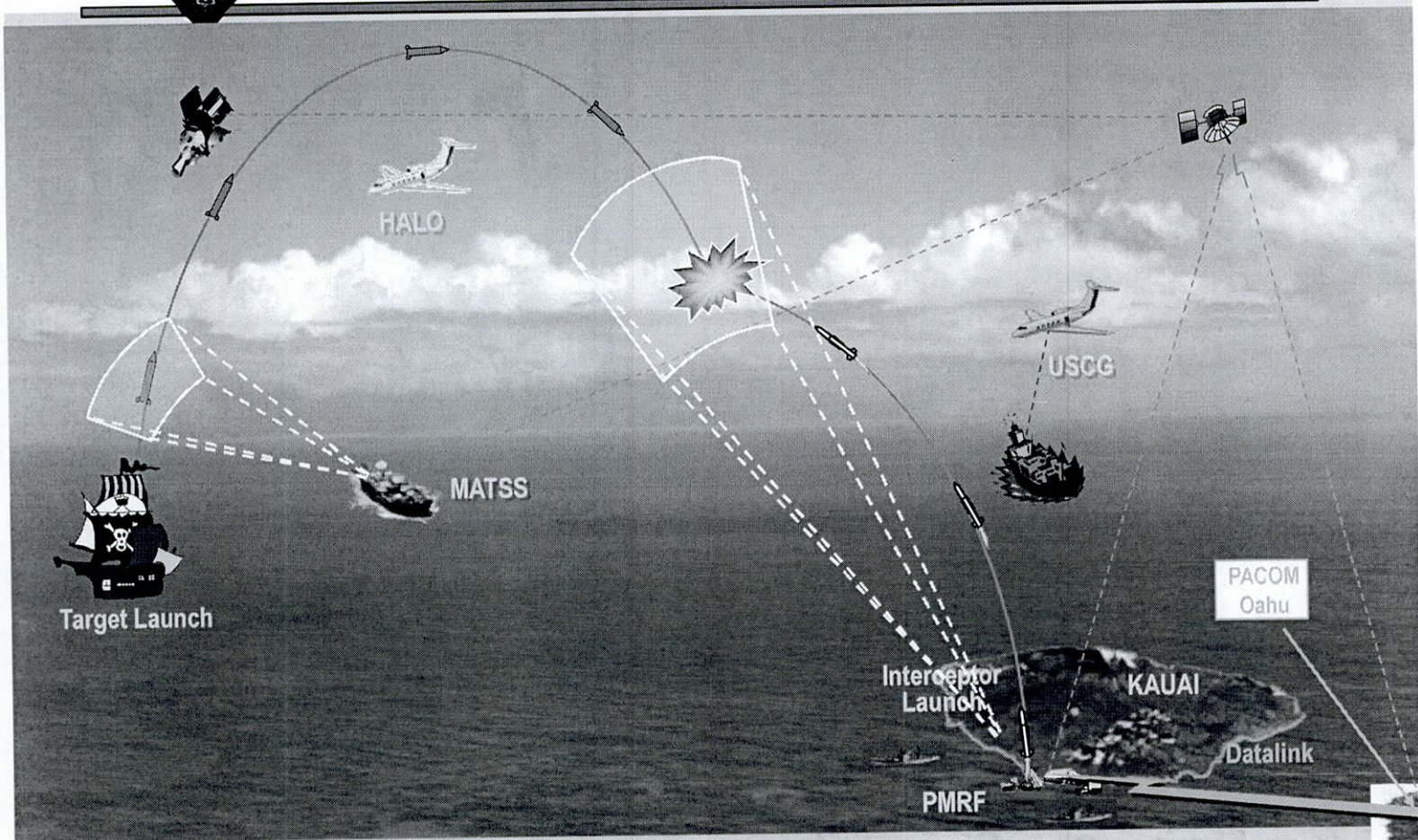


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Ballistic Missile Defense THAAD & Aegis Ashore Scenario



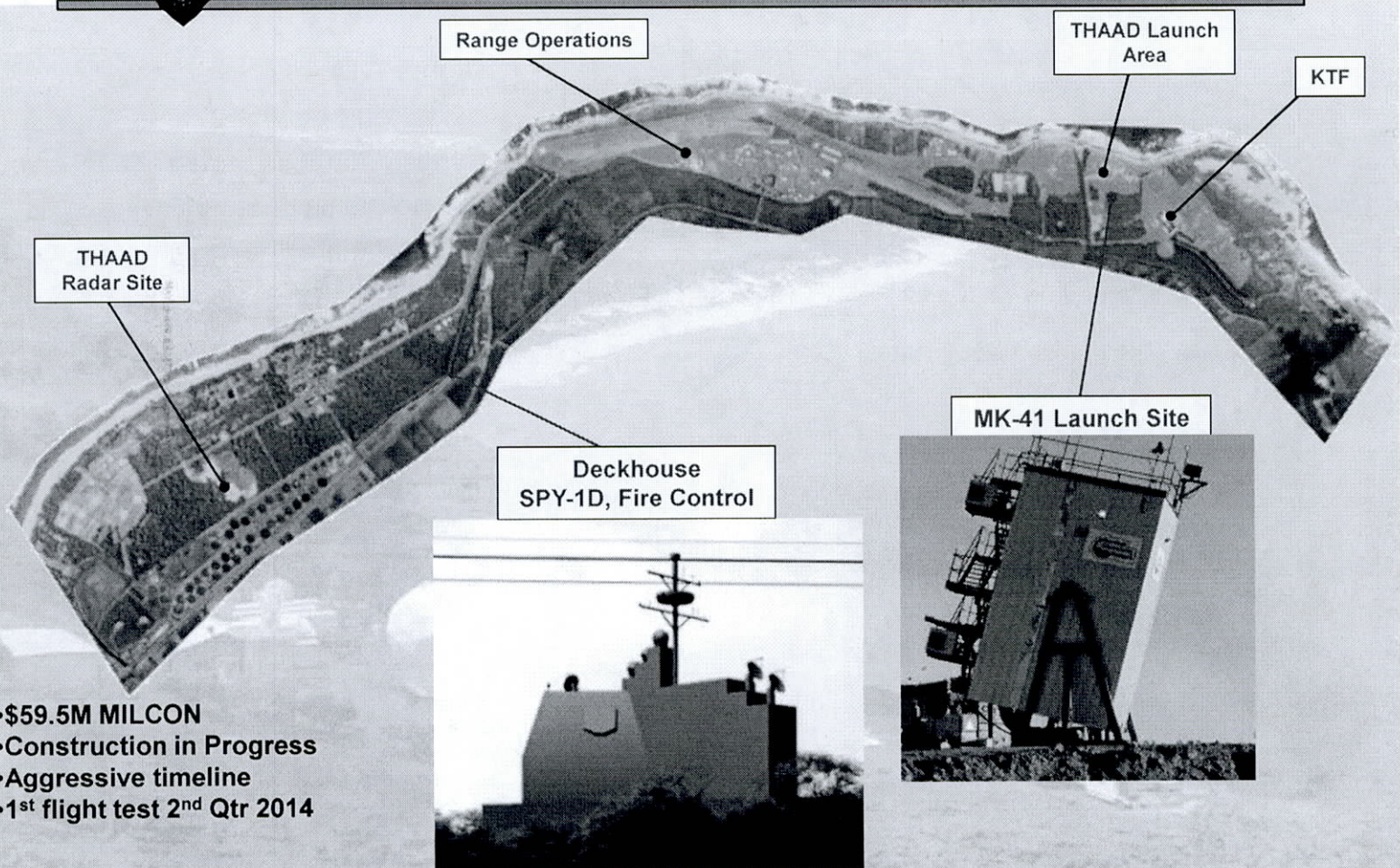
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Aegis Ashore Footprint at PMRF

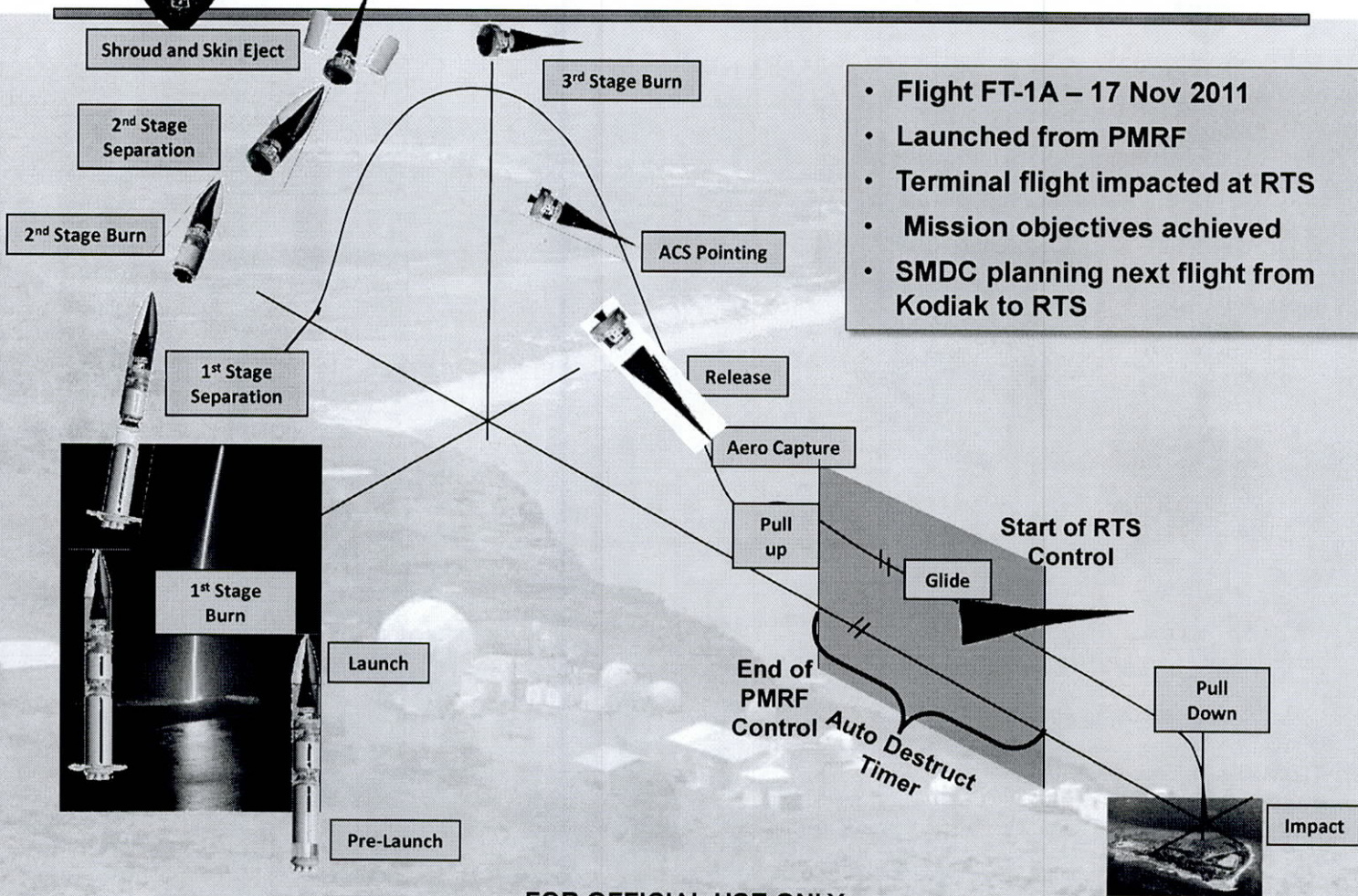


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Advanced Hypersonic Weapon



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HIFIRE-2

Joint Developmental Test Program

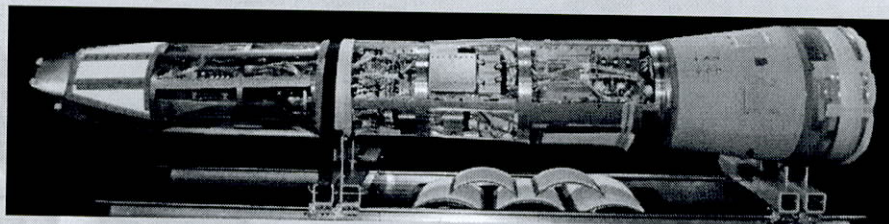
- Joint Development between U.S. and Australia
- U.S. Air Force Research Laboratory and Australia Defense Science & Technology Office
- HF-0 & HF-1 (non-PMRF) collected data on:
 - Terrier & Orion motors
 - No Combustion
 - Materiel Property Check Out
 - Engine design for sustain flight
- HF-2 at PMRF – 1 May 2012
 - Scramjet Inlet design test
 - Combustion Inlet design Test
 - Unitary Payload/Oriole
 - Three Stage missile
 - Results will feed into HF-6



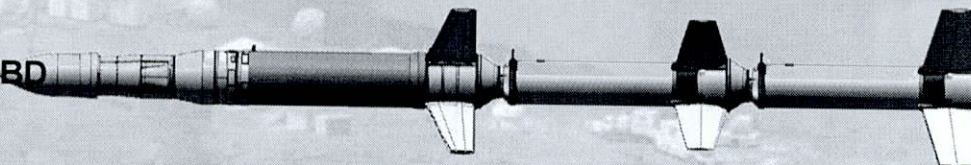
HF-0 launch 7 May 09



HF-1 launch 22 Mar 10



- Future Flight Tests at PMRF TBD

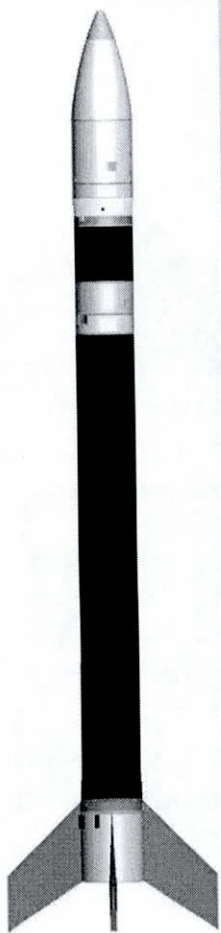


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Super Strypi



- **Program Sponsor: Office of Responsive Space (ORS)**
 - Concept originated with the University of Hawaii, Hawaii Space Flight Laboratory (HSFL)
 - HSFL responsible for pad refurbishment, rail launcher, and launcher installation
- **Super Strypi is ORS's #2 Priority**
 - Program NEPA Environmental Assessment /FONSI is complete
 - Vehicle design/development is in process
 - Launcher/Launch Pad refurbishment to begin in 2^Q FY13
- **Initial Operational Capability goal: Oct-Dec 2013**
- **Objectives**
 - Conduct two demonstration space launches from PMRF using a low cost launch system based on existing technologies
 - » SPARK: Launch Vehicle Designation
 - » Lift requirement: 250 kg to 400 km sun-synchronous orbit from PMRF
 - Increase low-cost access to space for DoD, NASA, academic and commercial payloads
 - » E.g., short-duration technology demonstration missions
- **Benefits**
 - Create workforce training opportunities
 - Long-term commercial use of DOD facilities on reimbursable basis

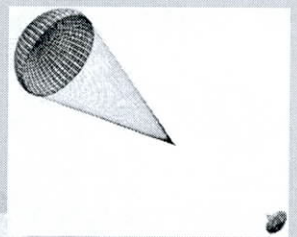
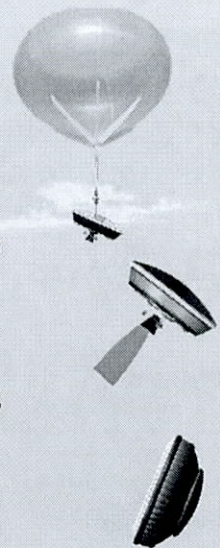
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Low Density Supersonic Decelerator (LDSD)

- **NASA developing new supersonic inflatable decelerator and parachute technology**
 - Advancing to TRL 6
 - 6 and 9-meter diameter Mach 3.5 inflatable decelerators
 - 30-meter diameter Mach 2+ supersonic ringsail parachute with non-mortar deployment
- **Enables sending larger payloads to higher elevations on Mars with greater precision**
- **Conduct tests in Earth's stratosphere at supersonic speeds**
 - Simulate operation in the thin atmosphere of Mars
- **Schedule: multiple flights in 2014 and 2015**



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CSSQT

(Combat Ship System Qualification Trials)

Purpose

- Verify and validate a ship's combat weapon systems is installed correctly
- Operate and maintain in a safe and effective manner by the ship's crew before release for operational service.

System Qualification Trials at PMRF

Under Sea Warfare

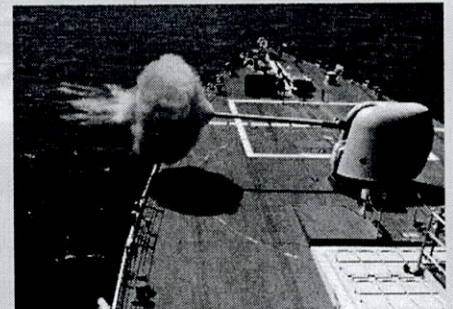
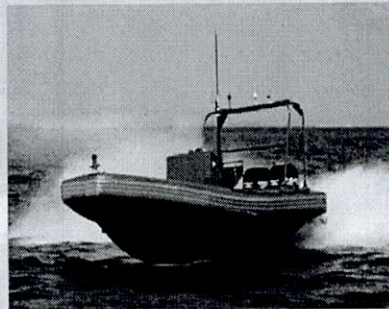
Surface Warfare

Air Warfare

Electronic Warfare

Mine Warfare

TADIL Command and Control



Weapons Systems

GWS (5" & CIWS)

MK-46 Torpedo

SM-2, ESSM, RAM

ECM, ECCM

Targets

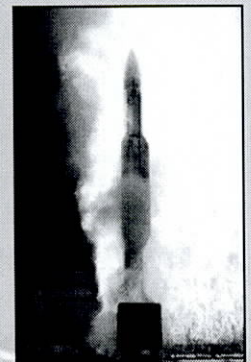
HSMST, LCTT, William Sled, Fake Island

MK-30 Underwater Target

BQM-34, BQM-74, AQM-37

BQM targets with jammer/chaff

Underwater Minefield



USN DDG CSSQT (SUW)

USN DDG CSSQT (Multiple Warfare Areas)

USN LPD CSSQT (Multiple Warfare Areas)

USN DDG CSSQT (USW)

USCG CSSQT (Multiple Warfare Areas)

USN DDG CSSQT (USW)

30-31 Jan 2013

25 Feb – 7 Mar 2013

12-22 Mar 2013

25-28 Jun 2013

29 Jul – 2 Aug 2013

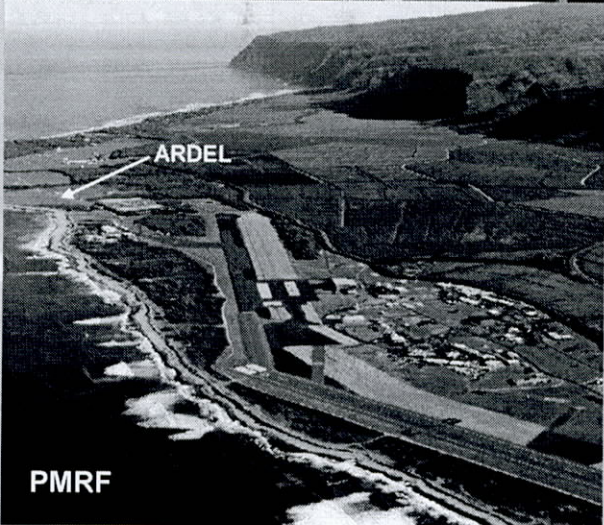
20-23 Aug 2013

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Advanced Radar Detection Laboratory (ARDEL)



- 17,039 ft² facility
 - Integrated trainable turret
 - » Single face AMDR-S (Spy-3 used on DDG-1000)
 - » Single face AMDR-X (SPY-1 on Aegis CG/DDG)
 - High power & cooling requirements
 - First LEED Gold facility on Kauai
- Jan 2012 \$20M MILCON complete
- 2012-2014 System, generator, & radar install
- Testing begins late 2014



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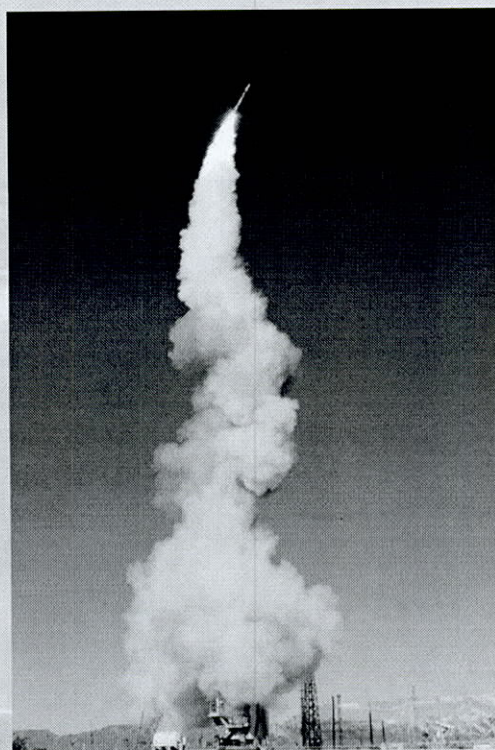
SM-6

Mission

Provide ship self-defense, fleet area defense, and theater air defense for sea and littoral forces

Description

- Solid propellant, tail-controlled surface-to-air
- Incorporates a separable booster with thrust vector control; provides capability for projecting air defense to theater ranges
- Combines the legacy of SM-2 propulsion and ordnance with the AMRAAM active seeker
 - Allows for over-the-horizon engagements
 - Enhanced capability at extended ranges
 - Increased firepower



Platforms

Primary air defense weapon for AEGIS ships

Schedule

| | |
|--------------------|------------------|
| May 2010: | DT/OT |
| Dec 2010/Jan 2011: | OT |
| 2013: | Next OT Campaign |

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MILCON Project Program

PMRF SITED MILCONS UNDER CONSTRUCTION

| FY | PROJECT # | MILCON PROJECTS IN CONSTRUCTION | COST (\$M) | ECD |
|------|-----------|--|------------|--------|
| 2010 | P-627 | Aegis Ashore Missile Defense Test Center, MDA | \$59.5 | Aug-13 |
| 2012 | P-400 | Replace North Loop Electrical Distribution System, PMRF* | \$5.6 | Jan-14 |

PMRF PROGRAMS

| FY | PROJECT # | MILCON PROJECTS, CNO INITIATIVE PROJECTS, REPAIR SPECIAL PROJECTS | COST (\$M) |
|------|-----------|--|---------------|
| 2015 | P-402 | Upgrade Power Plant & Electrical Distribution Sys, PMRF* | \$44.37 |
| 2015 | | Nohili Culvert Repair, PMRF** | \$1.1 |
| 2016 | P-410 | Consolidated Range Operations Complex | \$25-30 |

* - CNO Initiative Projects

** - Repair Special Projects

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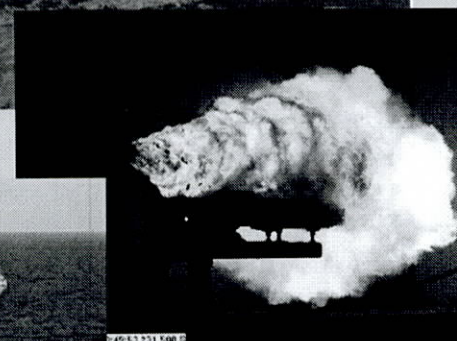
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Directed Energy & EMRG

- **Maritime Directed Energy Test Capability (MDETC)**
 - Range facility to house both electric weapons and directed energy testing and training.
 - 2002: PMRF selected to host MDETC
 - 2007: MDETC concept scaled down to become a laser test center facility
 - 2010: PMS-405 study for DE facilities initial infrastructure options
- **Directed Energy**
 - Four laser programs since 2008
 - On-going Environmental Assessment for DE Technology Maturation program
- **Electromagnetic Rail Gun**
 - 2008 test range selection survey
 - » No one range can support all test requirements.
 - » Transportable EMRG test bed for testing on the appropriate range.
 - ONR maritime range test planned for 2017-2019



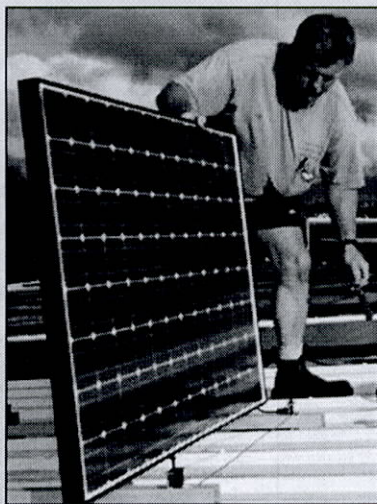
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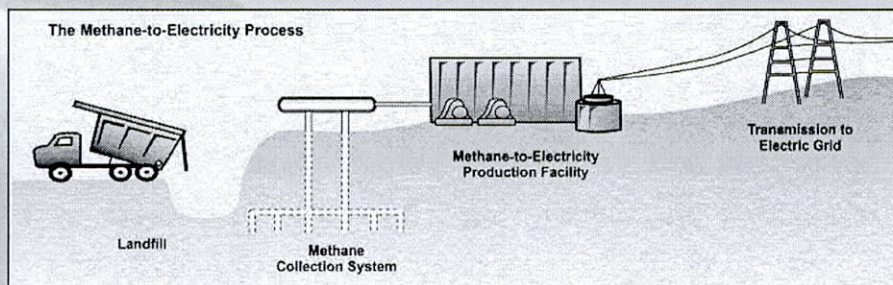
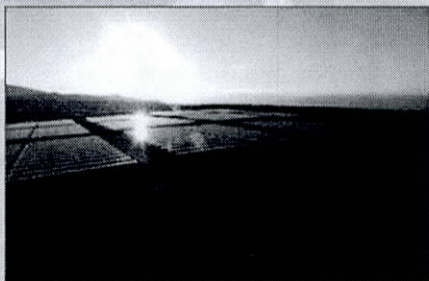
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Energy Security

PMRF GOAL = A 100% non-fossil fuel powered Navy Base by the year 2015



- A \$6.6M ARRA project, roof top PV systems on 10 PMRF buildings, 600KW of Renewable Energy (RE) to PMRF grid.
- Solar MACC. A Joint DoD & Hawaii power purchase agreement, 2-3 acre PV array field, add 1+ MW of RE.
- A Land Fill Gas to energy project partnership with the County of Kauai & KIUC to buy methane gas produced at the adjacent county landfill for use as a fuel source to generate 1.6+ MW of alt energy to the PMRF grid.
- Total generated power of initiatives ~ 3.2MW.



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FOR OFFICIAL USE ONLY



PMRF - An Important Economic Pillar

- **PMRF is Kauai's #1 single largest high tech employer, #3 overall**
- **Estimated \$132-plus million annual impact on the local economy**
 - Roughly \$82M contracts/services plus \$50M salary/benefits
- **Additional impact comes from surge populations for test events**
 - Testing events bring 200 - 600 visitors each event
 - Average of 4-7 surge events per year
 - Injects ~\$3M into local visitor industry each event
- **Military Impact to Hawaii**
 - 18% Gross State Product (GSP)
 - 16% of Hawaii's employment
 - \$11B defense spending, \$3.5B earnings, 100K employed

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FOR OFFICIAL USE ONLY



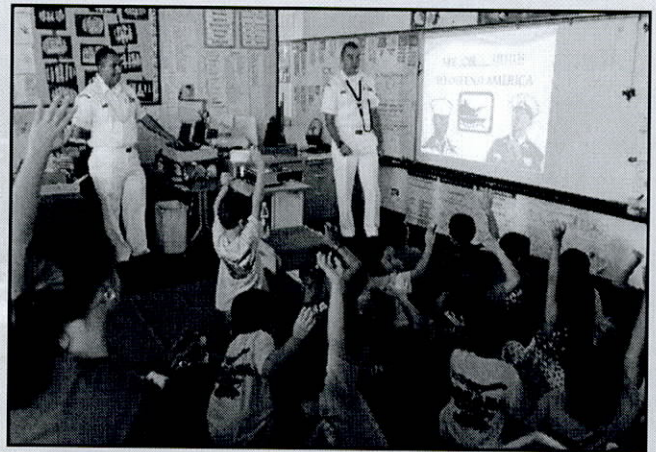
Kauai's Keiki... PMRF's Future

Challenge: Recruit and retain highly qualified engineers

Solution: Inspire excellence in math and science in the keiki of Kauai

PMRF actively participates in:

- School Partnership Program
- Aloha Ike
- Hawaii Space Grant Consortium (HSGC) Internship Program
- Waimea & Kauai High School model rocket launch events



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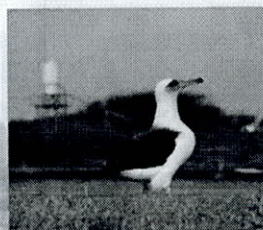
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Environmental & Cultural Stewardship



PMRF INITIATIVES

- Agricultural Preserve
- Albatross Surrogate
- Wedge-tailed Shearwater
- Green Light Program
- Green Sea Turtle Sanctuary
- Eradicate Invasive Species
- Coastal Clean-up
- Cultural Preservation
- Beach & Littoral Recovery



CNO ENVIRONMENTAL AWARDS

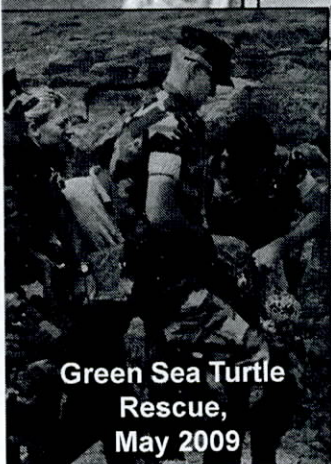
2011

- Natural Resources Conservation, Team Award
- Natural Resources Conservation, Integrated Natural Resources Mgt Plan

2009

- Natural Resources Conservation, Individual
- Cultural Resources Mgt

2008



Green Sea Turtle
Rescue,
May 2009



Questions?

328

9510

SHOOT



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578

60
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2

ENCLOSURE C

**Commander,
Navy Region Hawaii
Naval Surface Group Middle Pacific
Congresswoman Tulsi Gabbard**

22 February 2013





Navy Region Hawaii

Area of Operation



Makaha Ridge

NAVMAG/
RTF
Lualualei

Naval Computer and Telecommunications
Area Master Station, Pacific

Pacific Missile
Range Facility

Patrol and Reconnaissance Forces

Navy Munitions Command,
East Asia Division

Joint Base Pearl
Harbor-Hickam

Kaua'i

O'ahu

| NRH Footprint | |
|-------------------------------------|-------------------------------|
| Plant Replacement Value | \$20.9B |
| Land Acreage | 33,530 |
| NRH Civilian Employees | |
| Appropriated Fund | 1,110 |
| NAF | 1,584 |
| Contractor | 202 |
| GRAND TOTAL | 2896 |
| QOL – Housing | |
| Family Housing Units PPV | 7,096 |
| BQ (Barracks) - Bldgs. | 47 |
| NGIS (VQ) - Installations | 2 |
| - Bldgs. | 38 |
| QOL – MWR, Child Care, Fleet/Family | |
| Fitness Centers/Gyms | 8 |
| Fleet/Family Support Centers | 3 |
| Child Development Centers | 11/12 centers 1267/1387 sp |

TOTAL: 59,473

Total Navy NRH Force Served

14,785 Navy Active Duty

17,514 Navy Family Members

519 Navy Selected Reserves

16,405 Navy Civilians

4,780 Navy Mil Retirees

1 Navy Operational Support Centers

*Joint Base serves 5,432 active duty Air Force 2 members and their families



NAVREG HI

Shore infrastructure, service support, and training...



Staff

MIL - 38
CIV - 2414
Contr - 69



PMRF

MIL - 60
CIV - 140
Contr - 800



JBP HH

MIL - 962
(356 Navy / 606 AF)
CIV - 3
Contr - 0



SURFGRUMIDPAC

Lead and manage the Surface Combatant Force homeported at Joint Base Pearl Harbor-Hickam (JBP HH), HI



MIDPAC

MIL - 40
CIV - 3
Contr - 0



DESRON 31

MIL - 21
CIV - 0
Contr - 0



Commander, Navy Region Hawaii



- Commander, Pacific Fleet
- Commander, Pacific Air Forces
- Commander, 13th Air Wing
- Commander, Submarine Force Pacific Fleet
- Commander, Naval Surface Group Middle Pacific
- Joint Base Pearl Harbor-Hickam
- Pearl Harbor Naval Shipyard
- Navy Munitions Command East Asia Division
- Naval Computer & Telecommunications Area Master Station
- Pacific Missile Range Facility



Personnel 4017 => 1121 Military / 2896 Civilian



JBRPHH



MILCON & NOAA Projects

Total DOD Complete: \$569M

Total DOD Ongoing: \$206M

NOAA Projects (Ongoing & Complete): \$208M

NOAA PRC Marine Lab
(\$23M, Complete) (FY08)

NOAA Pacific Region Center
(\$185M, Ongoing) (FY10)

Child Development Center
(P-020, \$32.3M) (FY09)

Realign/Replace
Wahiawa Water Main
(~\$35M)

Emergency Notification and
Alarm System
(P-071, \$1.5M) (FY11)

SOE NSWG-3 Command & Ops Facility
(P-462, \$30.4M) (FY11)

Center Of Excellence
(P-056, \$8.9M) (FY11)

Virginia-Class Submarine
Synthetic Trainer
(~\$10M)

DISA PAC Facility Upgrades Bldg 77
(P-1002, \$9.6M)

Submarine Production
Support Modernization
(~\$38M)

Drydock 2 Planning &
Production Space Consolidation
(~\$23M)

DD1&2 Ship Support Services
(P-302, \$30.2M) (FY08)

Production Services Support Facility
(P-307, \$25.1M) (FY10)

Hickam Ground Control Tower
(P-3003, \$4.0M) (FY10)

JPAC USPACOM
(P-005, \$99.3M) (FY11)

Missile Magazines (5), West Loch
(P-182, \$22.4M) (FY10)

Pearl City
Sam's
Highlands Center
Kamehameha Highway

DLA Warehouse
(P-1101, \$9.2M) (FY12)

Navy Information Ops/FES Facility
(P-041, \$7.5M) (FY12)

Fitness Center
(P-578, \$4.5M) (FY09)

Child Development Center
(P-019, \$29.3M) (FY09)

Upgrade Refueling Truck Area
(P-125, \$5.2M) (FY12)

Hawaii Regional Security
Operations Center
(P-010, \$350M) (FY03)

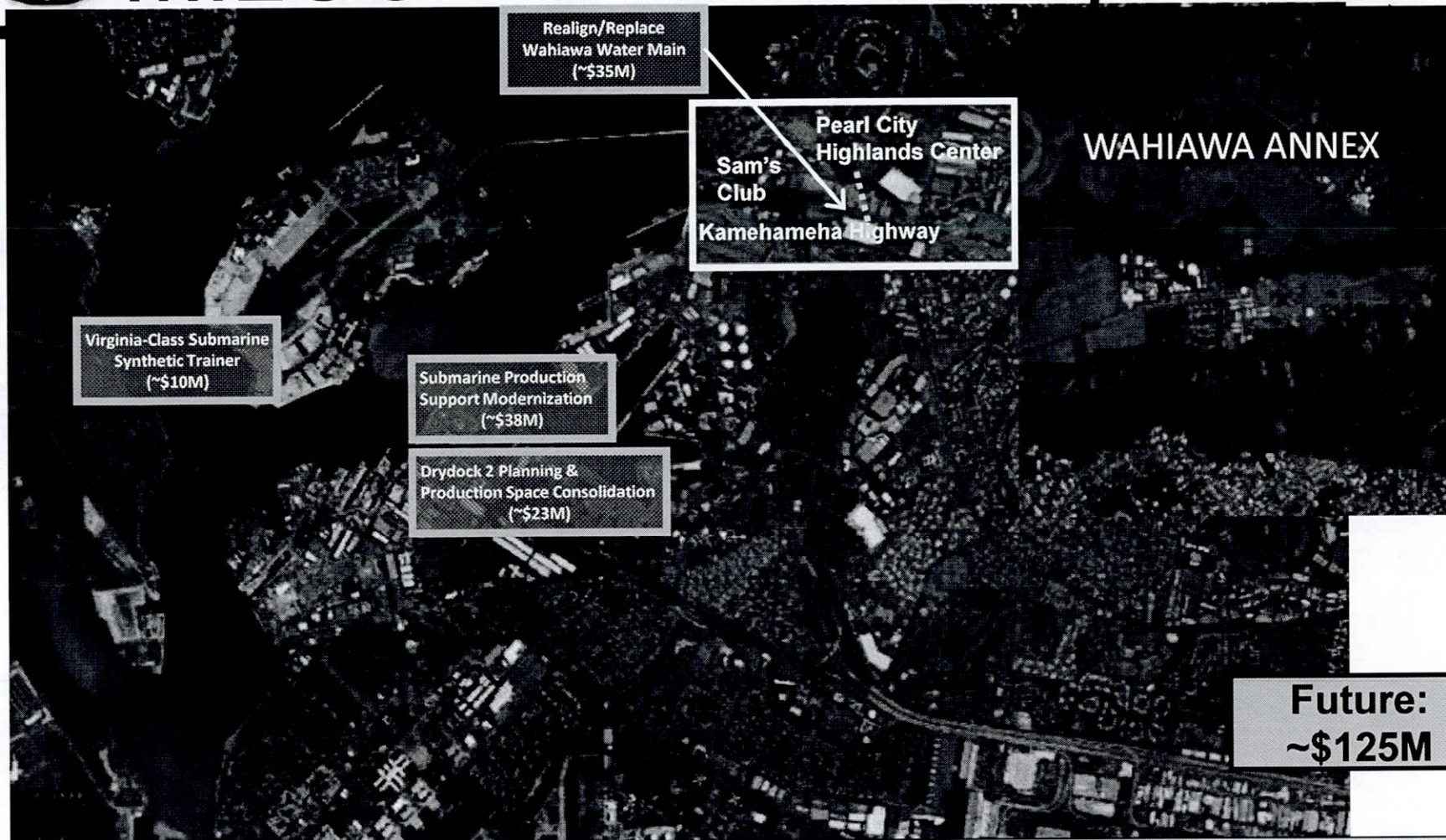
Communication Center
(P-173, \$65.4M) (FY08)

AE Sewage Study Wahiawa, B261
(WIR 581058, \$30K, Ongoing) (FY13)

**Future:
~\$125M**



JBPHH MILCON & NOAA Projects



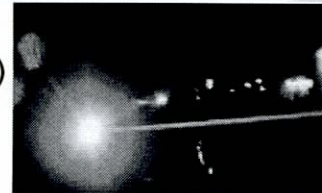
Quality Construction, On time, Within Budget..
Fiscal Uncertainty...Challenges Sustainment, Renovation, Modernization



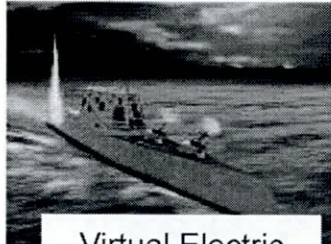
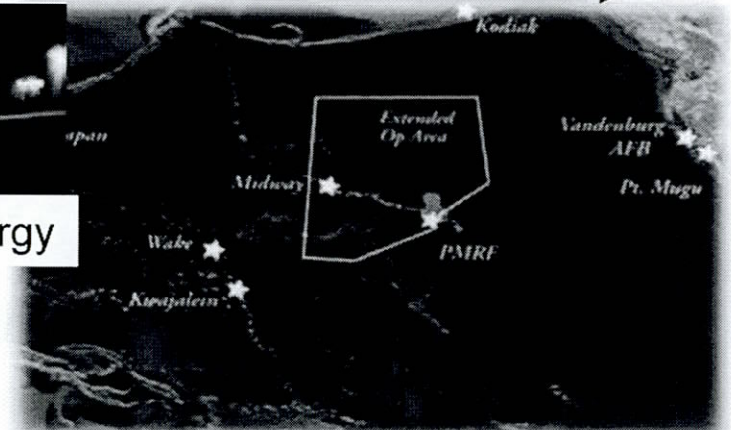
Pacific Missile Range Facility Overview



- Mission: Test & Eval and CPF Training
- 1000 personnel (75 mil, 125 Govt, 800 Contractor)
- Main Base: 7 ½ miles x ½ nm, 10% fenced
 - Outlying Areas: Makaha, Kokee, Port Allen
- ~\$132M annual impact to Kauai
 - \$82M contracts/services plus \$50M salary/benefits
- 1100 sq mi underwater range, largest in world
- Over 50% of our workforce has called Kauai home for more than 5 years
- 95% of workforce reside in community



Directed Energy



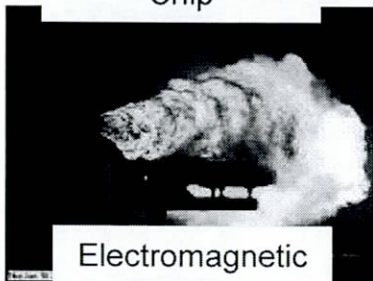
Virtual Electric Ship



Advanced Radar Detection Lab



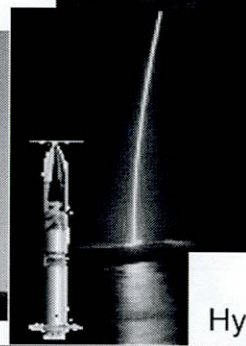
SPY-1D Fire Control



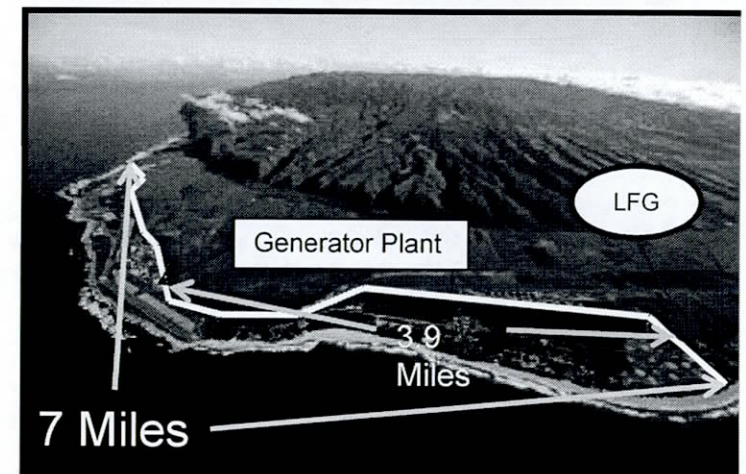
Electromagnetic Rail Gun



THAAD Launch Site



Advanced Hypersonic Weapon



#1 High Tech Employer, #3 Employer Overall / First Net Zero USN Base by 2015



Energy Goals



1. Energy Efficient Acquisition

Evaluation of energy factors will be mandatory when awarding contracts for systems and buildings.

2. Sail the "Great Green Fleet"

DON will demonstrate a Green Strike Group in local operations by 2012 and sail it by 2016.

3. Reduce Non-Tactical Petroleum Use

By 2015, DON will reduce petroleum use in the commercial vehicle fleet by 50%.

4. Increase Alternative Energy Ashore

By 2020, DON will produce at least 50% of shore based energy requirements from alternative sources; 50% of DON installations will be net-zero.

5. Increase Alternative Energy Use DON-Wide

By 2020, 50% of total DON energy consumption will come from alternative sources...80GWH



Energy Program



SECNAV 2012 Energy and Water Management Awards:

- Platinum: JBPHH (Large Shore Winner), USS Paul Hamilton
- Gold: PMRF
- Blue: USS Hopper
- RIMPAC 2012: Great Green Fleet

Goals and Objectives:

- Meet SECNAV Goals ...50% Renewable Energy & Consumption Reduction by 2020
 - ~80 gigawatt-hours/year, equivalent to 10,200 homes
 - \$25 million in cost avoidance per year after 2020
- Achieve Net-zero Energy installations (CDC)
- Meet LEED Silver Standards
- Reduce CYBER vulnerabilities ***Successful Phase I SPIDERS demo; Jan 25, 2013

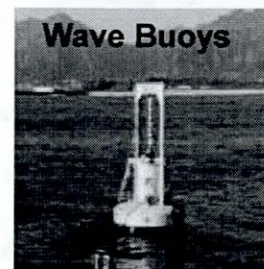
Challenges:

- Relationships between DoD, Private Industry, and Community

Significant Projects:

| | <u>Est. Completion</u> |
|--|------------------------|
| • Power/Energy Purchase Agreement (PPA) - Solar MAC PV | 2014 |
| • Enhanced Use Lease – Biofuel Power Plant | 2016 |
| <ul style="list-style-type: none"> • 1 Aug 2012 Industry Forum, 15 Nov 2012 Request for Qualifications • Potential 50 MW capacity, capability to black start and power JBPHH | |
| • Enhanced Use Lease -- Multi-Megawatts PV | 2016 |
| • Landfill Gas Power Plant (PMRF) | In Development |
| • Sea Water Air Conditioning (JBPHH) | In Development |
| • RECP | |

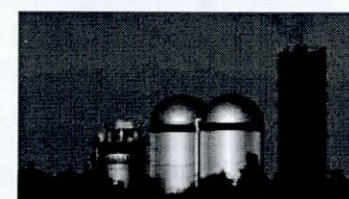
*Completed pilot program 2011



Wave Buoys



Planned OTEC
(Off Shore Thermal Energy
Conversion) Pilot Plant



Cyber-Secure Smart
Grid Initiative

Comprehensive Energy Security Plan...Generation Vs Consumption!



Environmental Stewardship



- **Best in the Navy SECNAV Award winning programs:**
 - Pacific Missile Range Facility – Natural Resources Conservation, Small Installation
 - Fleet Logistics Center – Environmental Quality, Team
 - Joint Base Pearl Harbor-Hickam – Cultural Resources Management, Installation
- **RIMPAC 2012 – Great Green Fleet**
- **Pearl Harbor National Landmark Historical**
 - Robust Environmental Planning and Historic Preservation programs (NEPA & Section 106)
- **Continuous Environmental Outreach**
 - Earth Month Events – Earth Day Fairs for Military Families and Workforce
 - Annual Makahiki with O'ahu Council of Hawaiian Civic Clubs and NHO's
 - Historic Preservation Awareness Day – Hawai'i State Capitol
 - Annual National Public Lands Day with Boy/Girl Scouts, Hawai'i Air National Guard, active duty military and DoD civilian volunteers
- **Hawaii-Southern California Training and Testing (HSTT)**
 - Navy is pursuing permits through the National Marine Fisheries Service (NMFS) for 2014- 2019 training and testing activities off the HI coast.





Improving and Enhancing Educational Opportunities



- **Interstate Compact on Education Opportunities for Military Children (MIC3)**

- HI commission model for other states

- **Help promote Hawaii public schools**

- Improved test scores
- Increased attendance rates

- **Joint Venture Education Forum (JVEF)**

- Cooperation between military and public school
- Strong, positive relationships with DOE leaders

- **STEM Opportunities for Schools**

- PHNSY Robotics/SEAPERCH
- Student visits to high tech areas on base
- Bridge Primary and Secondary education

- **Outreach to School Administration**

- Host Principals/CAS visits to CNRH
- Build strong working relationships



Awareness/ Enrollment ... Good News Story

WATERFRONT



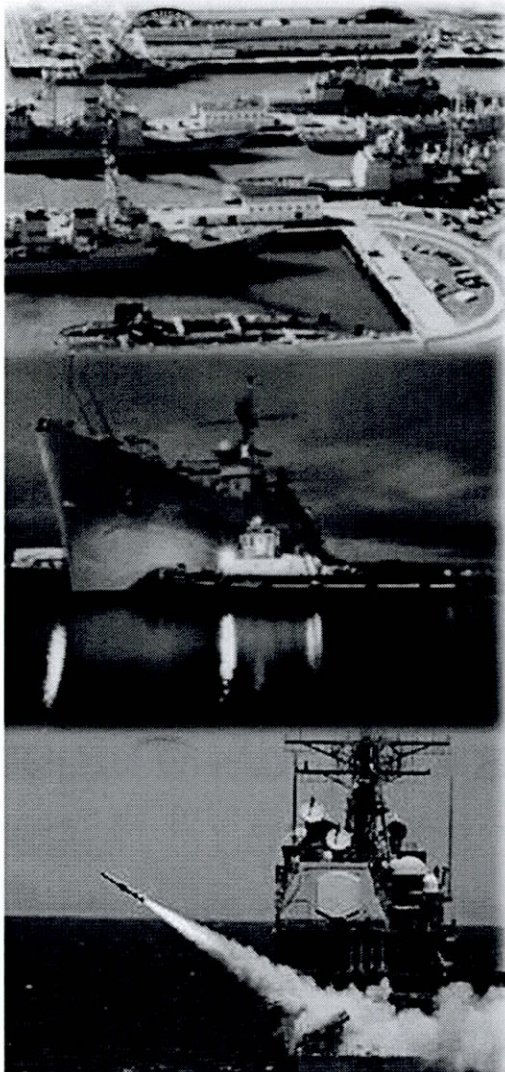
RIMPAC 2012

- 22 Nations
- 47 Surface ships
- 6 Subs
- 206 Planes
- 25k People
- 500k gal Biofuel
- Economy influx:
'10 ~\$50M, '12 ~\$70M



COMNAVSURFGRU MIDPAC

Pearl Harbor Naval Shipyard



- Mitigating Force Structure Impacts
 - Managing FY13 budget reductions
 - Maintain industrial base
- Adjustments to Support Workload Level Loading
 - Facility, people, workload balance
 - Awarded Drydock 4 repairs for \$7.7 million
 - Environmental improvements
 - Preserve historic and operational value of asset
- Apprentice Program and Extensive Outreach Engagements
- Supports Future Surface Ship Force Structure

#1 Industrial employer in Hawaii, 4,500 strong!

COMNAV/SURFGRU MIDPAC



USS LAKE ERIE (CG 70)



PORT ROYAL (CG 73)



USS O'KANE (DDG 77)



USS PAUL HAMILTON (DDG 60)



USS HOPPER (DDG 70)



DESTROYER SQUADRON 31



USS CHOSIN (CG 65)



USS HALSEY (DDG 97)



USS REUBEN JAMES (FFG 57)



USS CHAFEE (DDG 90)



USS CHUNG HOON (DDG 93)

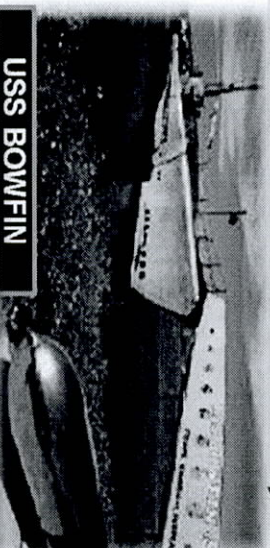
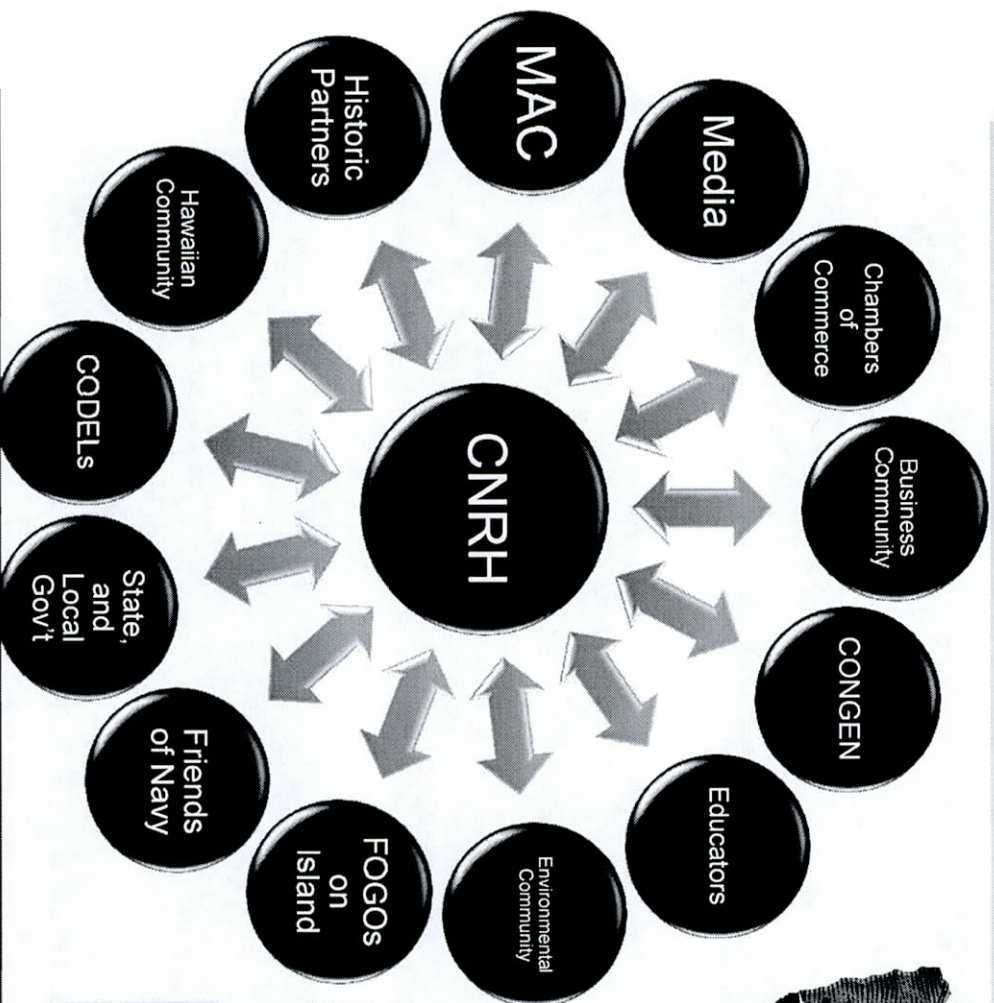


USS MICHAEL MURPHY (DDG 112)

"Constant presence. 11 ships now, 11 ships in the future."



Island Partnerships and Outreach



Engagement with a purpose!



Strategic Directions



- Warfighting First
- Operating Forward
- Always Ready



- Enable Warfighter Readiness (Fighter)
- Support Tomorrow's Force (Fleet)
- Take care of our people (Family)

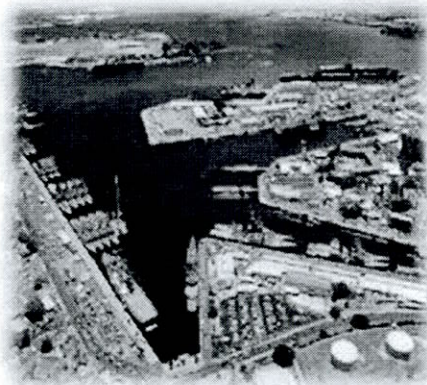


- a Culture of Readiness.
- & diverse, high-performing, innovative workforce
- Efficiencies
- Infrastructure and Total Ownership Costs
- Strategic Engagement and Outreach

ALIGNMENT



Strategic Laydown



Waterfront Strat Laydown

- Ship/Sub
- FY2012 to 2020

P8/P3 Move (HI to WA)

- What remains at MCBH
- MC Air realignment – MV22
- 2013 to 2017



2020 Timeframe Navy Footprint Hawaii

III MEF restructure

- 2700 Marines to HI
- FY2020+

ARG

- Home port analysis
- In support of the Naval Board
- FY2020+



Impact of Force Structure...*Housing, Schools, Infrastructure...*



"Year in Review"



Decommissioning



*Wounded Warrior
Pacific Trials 2012*



Ford Island CDC Opened



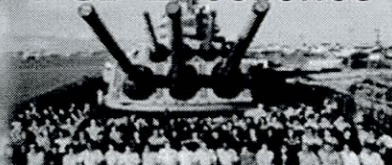
RIMPAC



New Fitness Facility



PSD Excellence



Dec 7th Commemoration



Veterans' Day



FTM



Challenges/Opportunities



-
- PMRF Bird Aircraft Safety Hazard
 - PMRF Security
 - Safe Harbor/Wounded Warriors
 - Historic Preservation/Modernization
 - Budget...CR/Sequestration
 - Workforce impact...hiring freeze/furlough
 - PHNSY ship loading
 - Apprenticeship program
 - HART
 - Strategic Laydown/Future Force Structure
-

Mahalo Nui Loa





Interest Items



-
1. Impacts of sequestration on civilian work force population
 2. Impacts of sequestration on pending and current contracts
 3. What are your critical contracts, programs and funding requirements
 4. Future posture of US Navy forces, more specifically COMNAVSURFGRU MIDPAC in the Asia-Pacific, and how that posture would affect basing of Sailors in Hawaii.
 5. Role of PMRF as Navy rebalances to the Pacific.
 - Whale sanctuary
 - Bowfin
 - Hawaii Area Rapid Transit (HART)
 - Ford Island PV
 - Strategic Laydown impact
 - FY13 Budget Impact
 - Base Access
 - Bailey Bridge
 - ATFP coordination
 - Water pipe replacement Pearl City
-



Pacific Missile Range Facility



-
- **2013 Major Test & Evaluation Events**
 - 4 MDA events for Aegis BMD ships
 - 200-500 personnel, approx \$3M economic impact to Kauai
 - THAAD completed PMRF OT Oct 2011, returns in FY14
 - **ARDEL (Advanced Radar Detection Laboratory)**
 - \$20M Tomco MILCON completed Jan2012
 - Ongoing \$100M+ install of computers, radars, & generators
 - Uses S & X band radar, develop next generation of ship radar
 - Tests begin 2014
 - **Super Strypi**
 - Office of Responsive Space (ORS) and UofH, Hawaii Space Flight Laboratory (HSFL) venture
 - Launch smaller, cheaper micro satellites, 2 PMRF demo launches
 - 250KG payload, 400KM sun-synchronous orbit
 - 1st launch tentative Fall 2013
-



Pacific Missile Range Facility



-
- **Aegis Ashore / \$59M MILCON**
 - \$100M+ radar, computer, generator install in early 2014
 - CPF approved 5 SM-3 BLK IB test launches
 - First launch tentatively sked 2nd Qtr 2014
 - **Grid & Energy Security**
 - Working POM15 MILCON, consolidates 4 PMRF grids
 - 600KW PV installed, 1MW PV 2014, 1.6MW LFG 2016
 - LFG partnership with Kauai County Landfill, KIUC utility
 - **Beach Border**
 - Balancing: safety, public access, FPCON, environment
 - MWR Card Pass, 1200 holders, Majors Bay – Shenanigans
 - Access 2nm beach, surfing, fishing, 0500-2200, showers/heads
 - Working Danger Zone modification for full 7 ½ nm coastline
 - Working Instruction for public access from North & South border
-

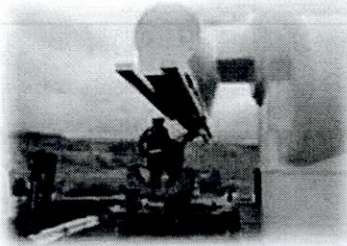
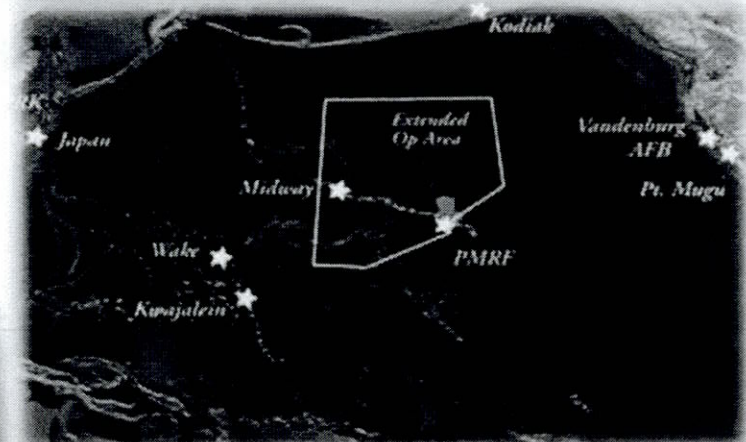
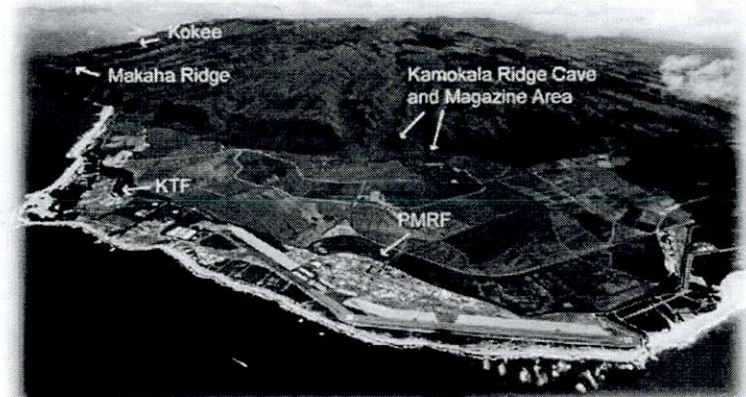


Pacific Missile Range Facility

PMRF Initiatives

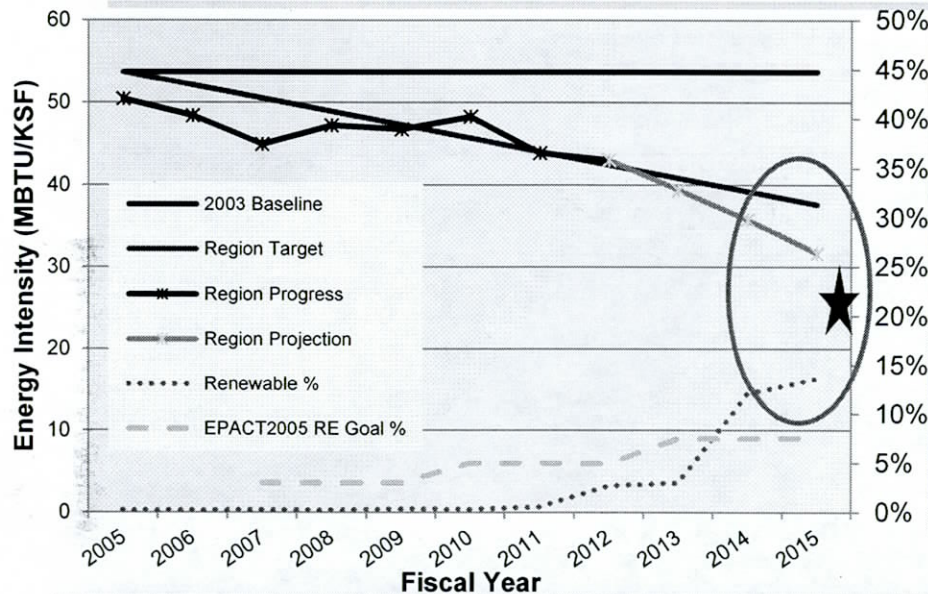


- **WAG MAR 2012**
- **2012 Major Test & Evaluations**
 - 4 MDA events for Aegis BMD ships, THAAD OT
 - 1 Advanced Hypersonic Weapon test, global strike
 - SM-6 shot
- **2013 RDT&E - \$22.8 Million**
- **Potential Cost Effective Net-Zero Energy**
 - >3.5X national average electricity rate
 - 1.6 MW Landfill Gas (LFG) project in development
- **\$98.1M MILCON**
 - North Loop Electrical Distribution System
 - Aegis Ashore Missile Defense Test Complex
 - Advanced Radar Detection Laboratory
- **ISSUES:**
 - Encroachment
 - BASH (Large Birds/NeNe)
 - FX COL





Navy Region Hawaii Energy Program Highlights



Facility Investment

\$51M in energy related project investments in FY10 & FY11

| | |
|----------------------------------|-------|
| Facility Energy Improvements | \$13M |
| Advanced Metering Infrastructure | \$11M |
| Renewable/Alternative Energy | \$27M |

Executing **\$24M+** in energy projects in FY12 & FY13

FY12 Facility Energy Reduction Progress (compared to '03 baseline)

| | |
|--------------------------------|-------------|
| Navy Region Hawaii | -20% |
| Joint Base Pearl Harbor Hickam | -20% |
| Pacific Missile Range Facility | -20% |

Renewable/Alternative Energy Initiatives

Large Scale Photovoltaic Systems, Solar Water Heating, Landfill Gas-to-Power, Bio-Fuel Power Plant, Waste-to-Energy, Sea Water Air Conditioning in Development, JBPHH & PMRF Net-Zero Assessments, E85 Stations

Industry and Government Partnerships/Initiatives

DOD-HECO Energy Partnership, Joint Services Solar MAC, Navy-NREL Technology Demonstrations, SPIDERS Smart Microgrid Technology Demonstration

2011 SECNAV ENERGY AND WATER MANAGEMENT AWARDS

- ❖ JBPHH (Platinum, Large Shore Winner), PMRF (Gold)
- ❖ USS Paul Hamilton (Platinum), USS Hopper (Blue)



Ford Island Today

Housing and Operations Centric



NOAA Ship Operations and Pacific Region Center

Cost: \$146.8M
Completion: Apr 13

Navy Lodge

Opened 2004
150 Rooms

Ford Island Child Development Center

Cost: \$32.3M
Completion: Sep 12

Proposed Runway Photovoltaics



Ford Island Housing

1998 – 40 homes
(100 residents)

2012 – 411 homes
(1180 residents)

Historic Barracks, Bldg 55 NSWG3 Command & Ops

Date Awarded: Jun 12
Cost: \$20M
Completion Date: Feb 13

Pacific Warfighting Center

Cost: \$25.4M
Completion: May09

Historic Dispensary, Bldg 76 Ctr for Disaster Management/Humanitarian Assistance

Cost: \$8.1M
Completion Date: Mar 13

Strategic Adaptive Reuse of Historic Asset

ENCLOSURE D



**PMRF Command Brief
For U.S. Rep Gabbard
25 March 2013**

**CAPT Nicholas Mongillo
Commanding Officer PMRF**

1311 CO



Brief History of Barking Sands

PACIFIC MISSILE RANGE FACILITY

1920s & 30s

Kauai's First Grass Airstrip

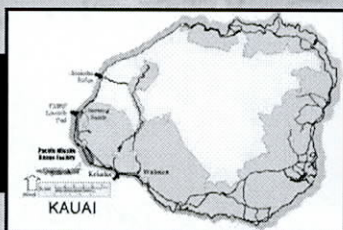


Southern Cross takes off on historic flight to Australia. Originating from Oakland Airport, San Francisco, the whole distance, was later calculated as 7,389 miles (11890 km), 83 hours and 11 minutes.

1940s

Mana Airport for Hawaiian and Pan American Airlines.

- WWII brought in the military presence
- Heavy Military Traffic
- Base population 6-8,000



1950s



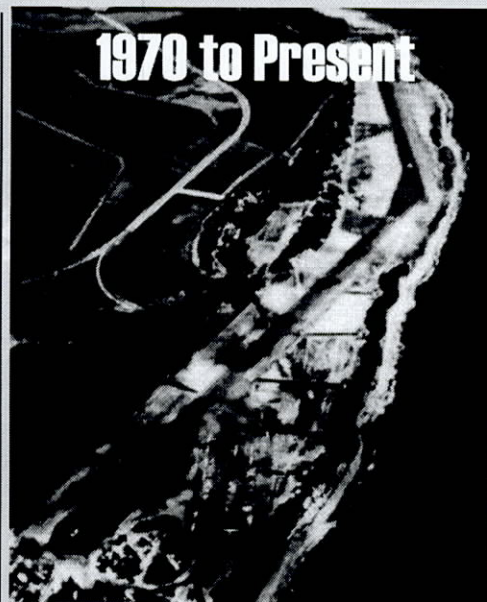
Navy enters Joint Use Agreement with USAF (1956)
1958: PMRF established

1960s

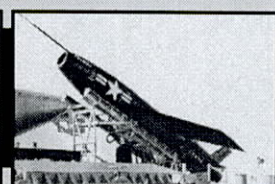
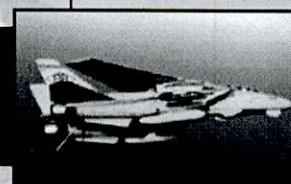


Bonham AFB
B-26 light bombers
Significant expansion of mission, test sites, & capabilities
1964: USN assumes PMRF & Bonham AFB

1970 to Present



Navy becomes principle user with Training and Test & Evaluation





PMRF's Mission and Vision

MISSION

PMRF enhances readiness of US and Allied forces by conducting safe and effective test and training events in an operationally realistic environment.

VISION

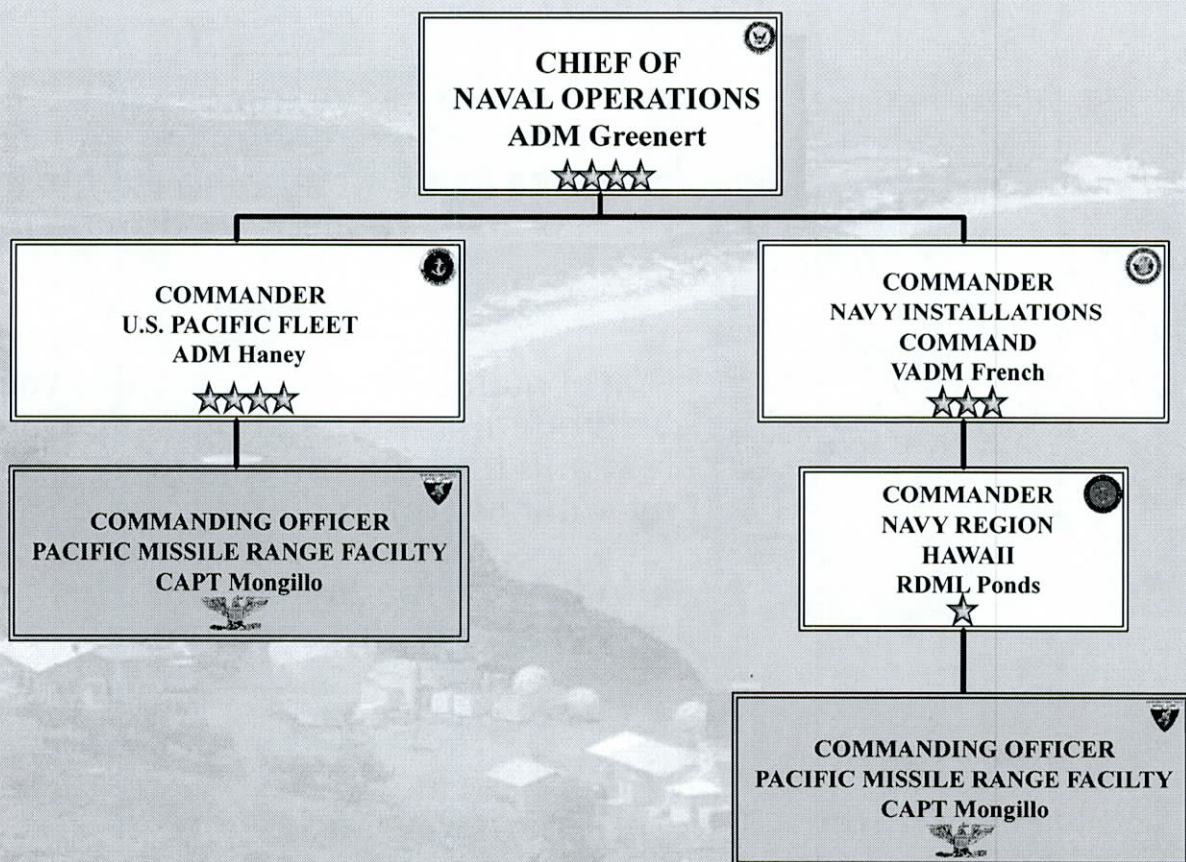
PMRF maintains its position as the leading multi-dimensional integrated test and training range, empowered by a dynamic workforce and state-of-the-art facilities, that ensures current and future force readiness, while being responsive to the community.



Honor -- Commitment -- Ohana



PMRF Reporting Chain





PMRF Range Complex



MAKAHA RIDGE



BARKING SANDS



KAMOKALA RIDGE



NIIHAU ISLAND



MAUNA KAPU



MATSS



KOKEE PARK



PORT ALLEN



PMRF Organization Chart

- Special Assistants (SAs have direct access to N00 on matters under their cognizance)**
- Staff Public Affairs (N00PA) (MC2 Diendorf)
 - Staff Protocol (N002) (Ms. Keiko Puu)
 - Staff Independent Duty Corpsman (N003) (HMC Oglesby)
 - Staff Legal (N011) (LT Fletcher)
 - Staff Security Manager (N012) (Mr. Mark Edgar)
 - Staff CCC (N013) (EN1 Davenport)
 - Staff DAPA (N014) (LT Cook)
 - Staff SVO (N015) (LCDR Johnson)
 - Staff Fitness Coord (N016) (HMC Oglesby)
 - Staff EMO (N017) (Mr. Bud Bouche)
 - Staff NOSH Safety (N018) (Mr. Ernest Sustaita)
 - Staff AT/FP Officer (N019) (MA1 Muzzana)
 - Staff Urinalysis Program Coord (N0110) (ASC Gillig)

N00
Commanding Officer
(CAPT Nicholas Mongillo)
ROS & BOS

N001
Senior Enlisted Advisor
(HMC James Oglesby)

N01
Executive Officer
(CDR Garron Morris)

N02
Technical Director
(Mr. Bob Kay)

N021
Command Information Officer
(Mr. Paul Schoberg)

CPF
UIC 0534A

CNIC
61064/3536A

NAVFAC
62478/46778

FISC
UIC 00604

NEXCOM

N1
Total Force
Manpower
(Ms. Sharon Yamagata)

N3R
Range Ops
(LCDR Juan Garcia)

N4C
Contracts
Admin
(Ms. Judith Moore)

N5
Strategy & Future
Requirements
(Mr. Joseph Schneider)

N6
Range
Systems
(Mr. Tam Tran)

N8
Finance
Ms. Liz Stewart (ROS)
Ms. Rosanne Shimogawa (BOS)

NEX-Mart
Manager
(Ms. Pat Huber)

N3A
Air Ops
(LCDR Jason Bartholomew)

N3S
Security Dept
(ENS Billy Newell)

N4F
Facilities/
Environmental
(LCDR John Baise)

N4S
Supply Officer
(Mr. Xavier Ignacio)

N7
Training &
Readiness
(Mr. Kelly Balmores)

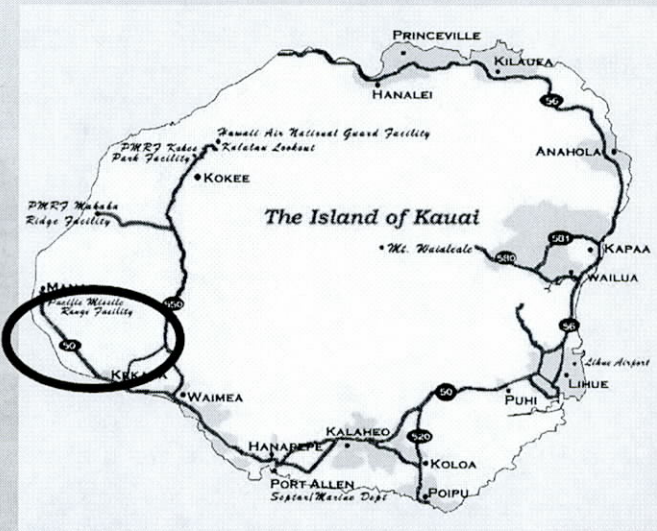
N9
Fleet & Family
Readiness
(Mr. William Bray)

- Range Safety (N3R1)
- Test & Evaluation (N3R2)
- Range Scheduling Officer (N3R3)
- Fleet Training (N3R7)
- SEPTAR (N3RST)

- Systems Engineering (N61)
- Instrumentation Systems (N62)
- Data Systems (N63)
- Support Systems (N64)
- Communication Systems (N65)



PMRF - “Home” to ~1000 Employees



| | |
|------------------------------------|-------------|
| Military (Officers/Enlisted)..... | 75 |
| Civilian (DOD)/ MWR (GS)..... | 125 |
| Contractors, Tenants, and MWR..... | 800 |
| TOTAL | 1000 |

- Over 50% of our workforce has called Kauai home for more than 5 years
- 95% of workforce reside in community



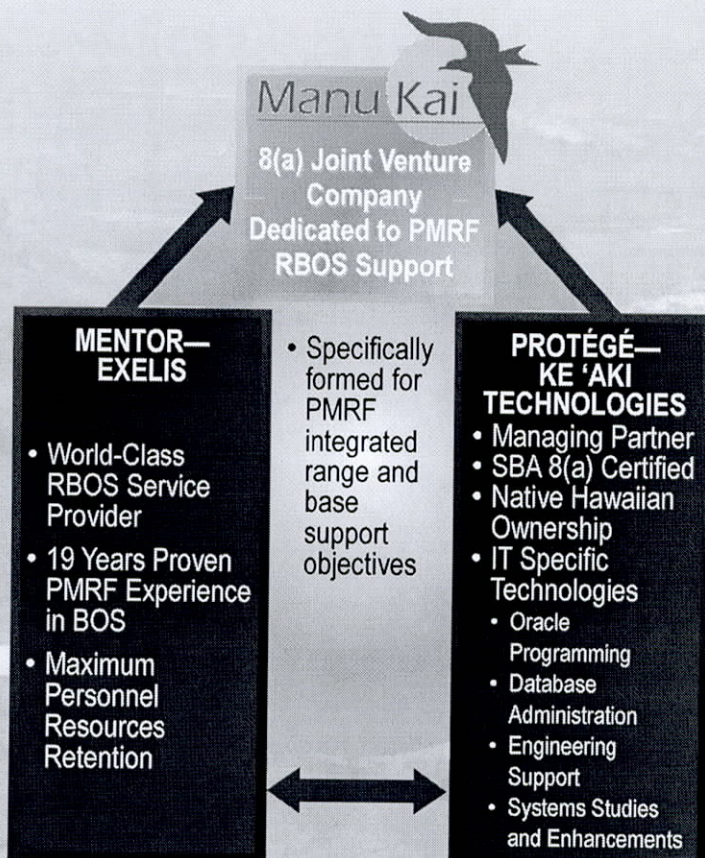


Team Barking Sands





Manu Kai (O&M Contractor)



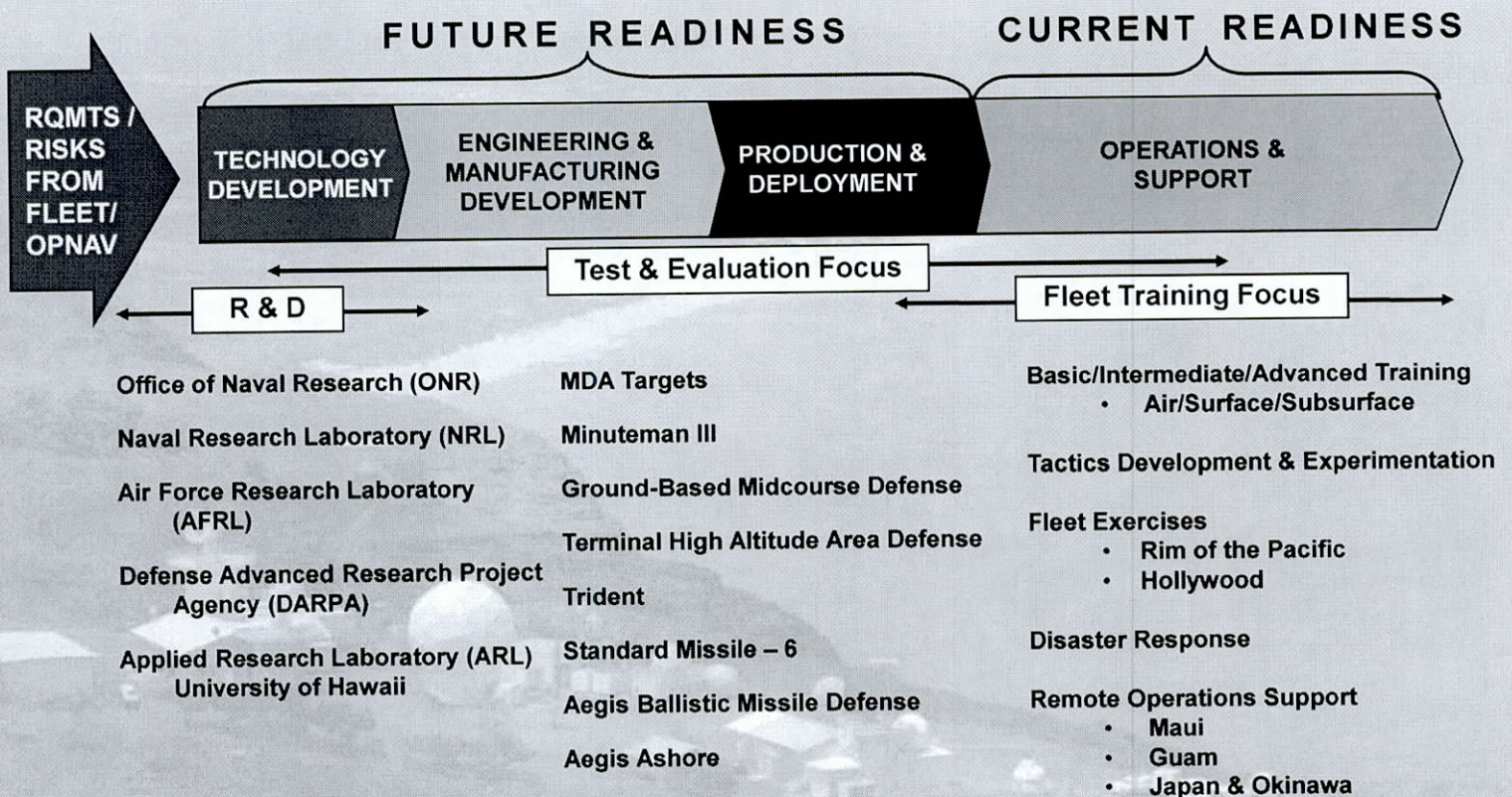
- Contractor for range and base operations technical support

- Training Operations Planning
- Testing
- Depot-level Repair
- Radar / Telemetry Operations
- Aerial Target Support
- Communications and Network Support
- Facility Engineering
- Operations & Maintenance
- Supply & Logistics
- Transportation
- Emergency Services
- Security Services

- Over 550 Fulltime and Temporary employees
- Two Unions and five Collective Bargaining Agreements



PMRF Alignment with Acquisition Continuum



PMRF CONDUCTS OPERATIONS ACROSS THE ENTIRE NAVY READINESS ENTERPRISE

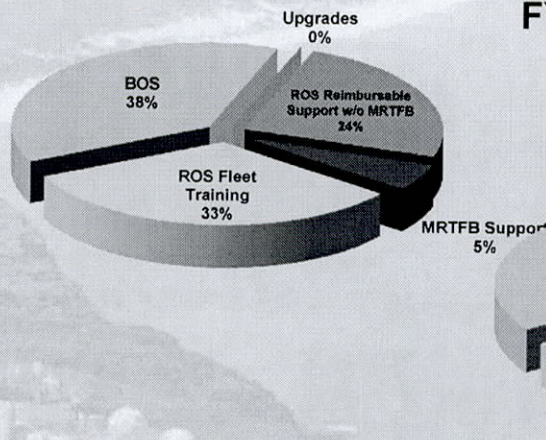
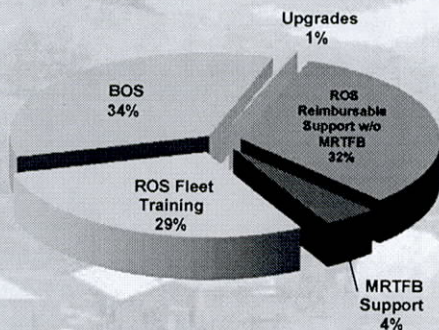


PMRF – Sustained Integrated Test & Training

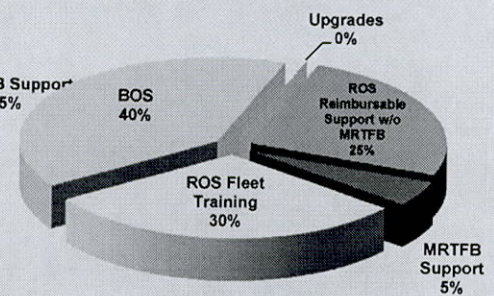
PMRF is a mission funded Navy Training Range; that conducts an equal amount of test and evaluation.

**FY12 Execution Total:
\$117.9 M**

**FY11 Execution Total:
\$120.9 M**



**FY13 Projected Total:
\$113.7 M**



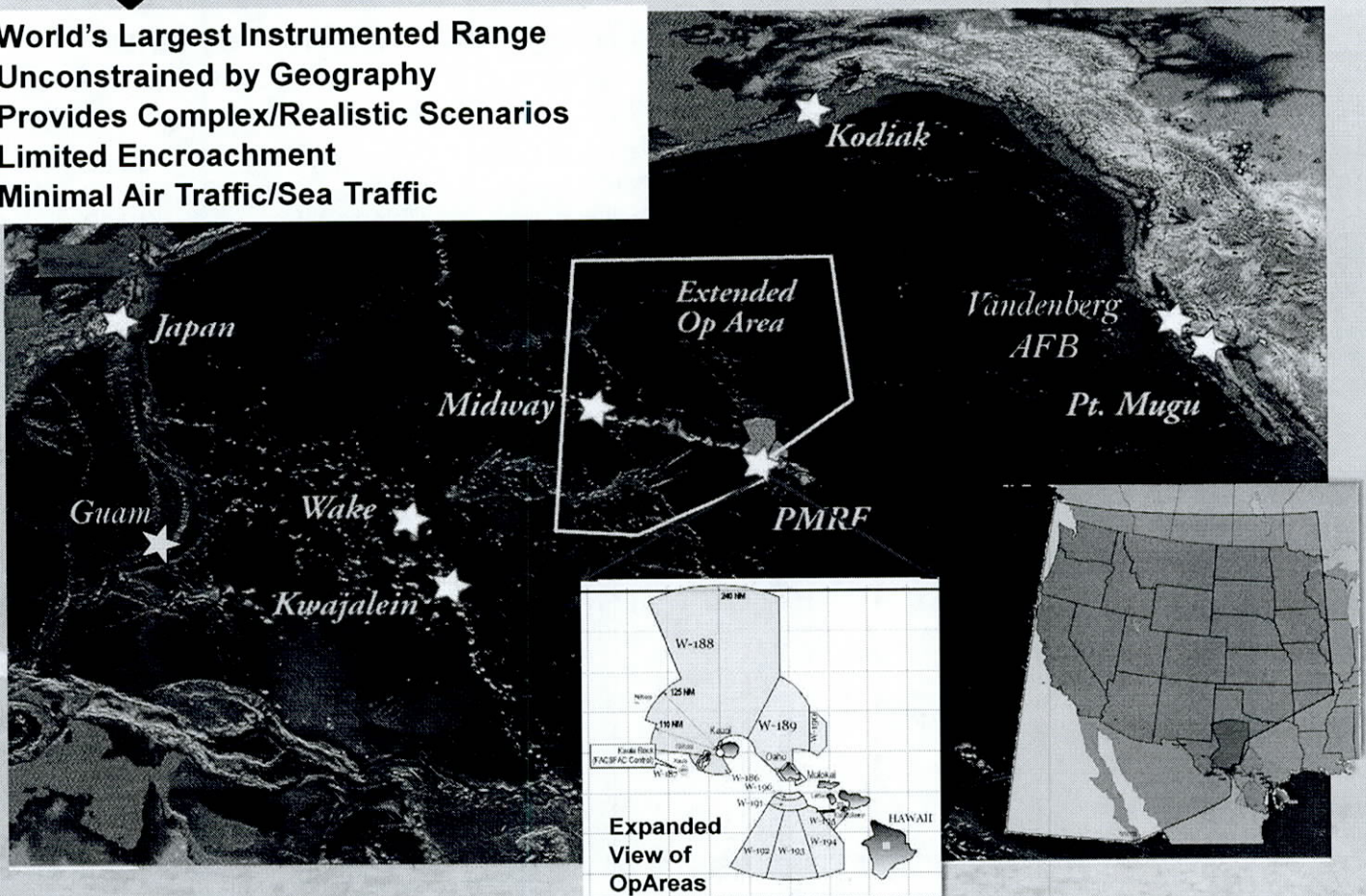
ROS: Range Operations Systems
BOS: Base Operations System
MRTFB: Major Range and Test Facility Base

PMRF OPERATING AS AN INTEGRATED RANGE



PMRF – Crossroads of the Pacific

- World's Largest Instrumented Range
- Unconstrained by Geography
- Provides Complex/Realistic Scenarios
- Limited Encroachment
- Minimal Air Traffic/Sea Traffic





Underwater Ranges

Total Area = 1100 Square Miles

- Largest Instrumented Underwater Range in the World
- Up to 12 Mk-84 Coded Pulse Pingers
- Splash Point Metric Location Capability
- Tracking: 10 feet - Splash Point: 30 feet

Barking Sands Underwater Range Expansion (BSURE)

Depths: 6,000 – 15,000 Feet
 Area: 900 Square Nautical Miles
 Hydrophones: 41 (Upgraded/Refurbished Oct 2010)

Barking Sands Tactical Underwater Range (BARSTUR)

Depths: 1,800 – 6,000 Feet
 Area: 120 Square Nautical Miles
 Hydrophones: 42

Shallow Water Training Range (SWTR)

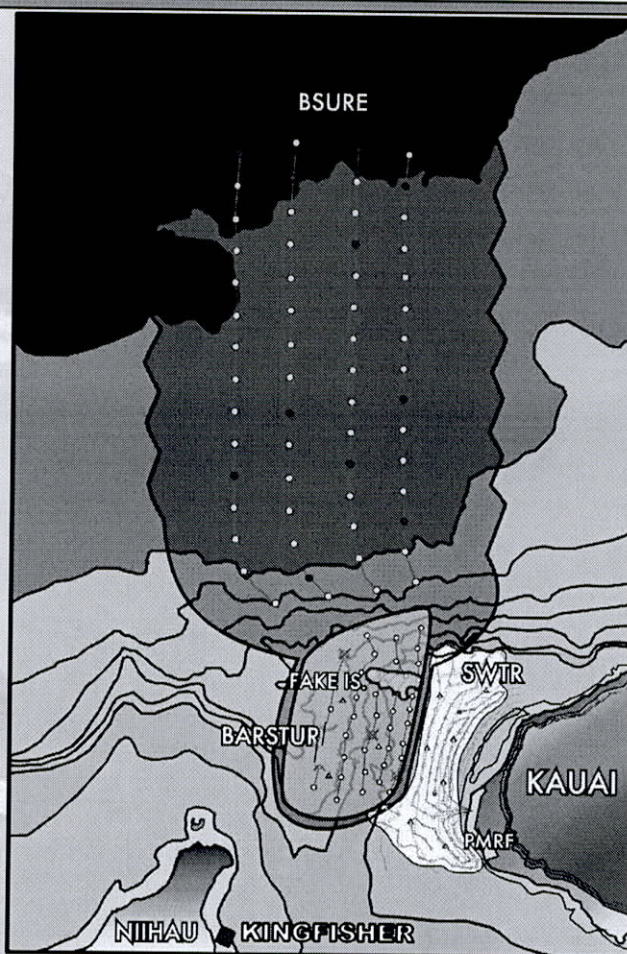
Depths: 129 – 1,800 Feet
 Area: 80 Square Nautical Miles
 Hydrophones: 118

Kingfisher Range

Depths: 80 Feet (Targets), 187-338 Feet (Water)
 Mines: 5 MK 53 MOD 1 Exercise Mines
 5 Commercial Subsurface Spherical Buoys

Underwater Ranges used for training/operations include:

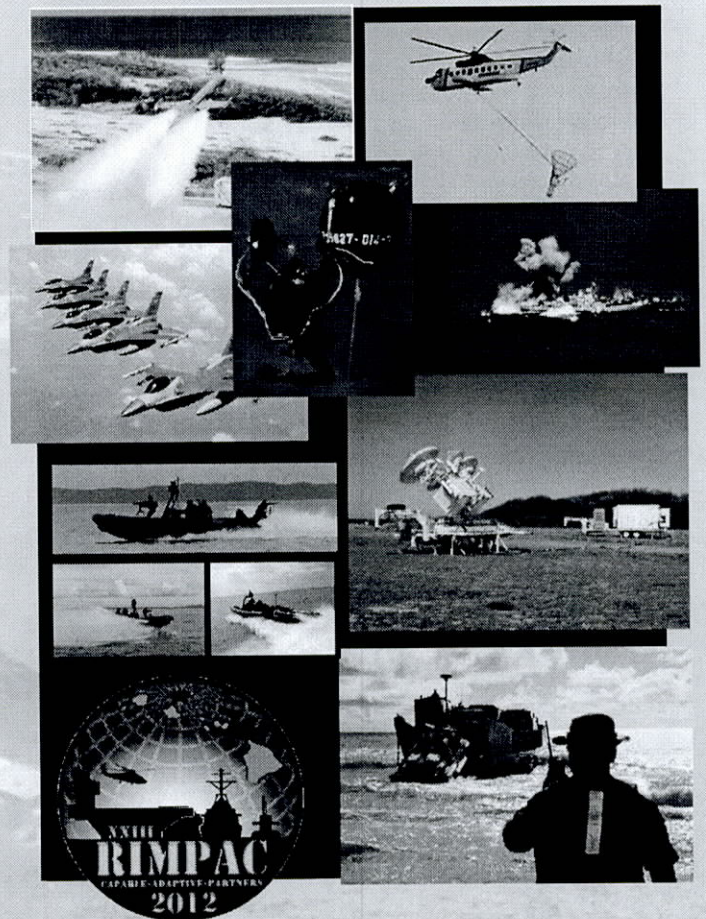
- Sonar
- Torpedo Training (ASW Exercises/ASW Rodeo)
- Tactics (Combat System Ships Qualification Trials)
- Ship Detection
- Submarine Commanders Graduation Course (Hollywood)





Joint / Combined Training Supporting Force Readiness Continuum

- Anti-Air Warfare
- Amphibious Warfare
- Anti-Surface Warfare
- Anti-Submarine Warfare
- Mine Warfare
- Strike Warfare
- Electronic Combat
- Naval Special Warfare
- Expanding in WESTPAC

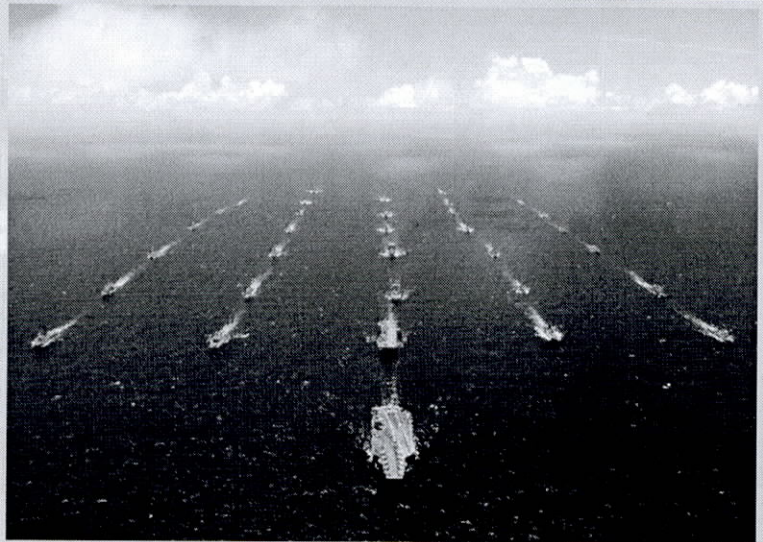




Rim of the Pacific (RIMPAC)

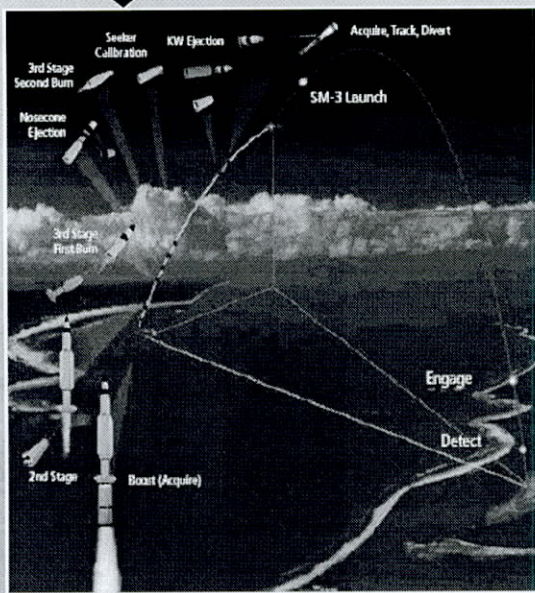


- **3rd Fleet sponsored biennial exercise (July 2014)**
- **PMRF - Location for live fire events / 2012 Totals**
 - Targets: 26 BQM, 6 MK-30, 2 AQM
 - 1200 Navy surface fire support rounds
 - 27 mines, 26 torpedoes, 21 fleet defense intercept missiles
 - 13 air-to-air missiles, 11 anti-ship missiles, 9 LGBs, 3 HARM
 - SINK-EX – 3 retired Navy vessels
- **RIMPAC 2012 – 22 participant nations**
 - >200 aircraft, 42 ships, 6 submarines, 25K+ personnel
 - Australia, Canada, Chile, Colombia, France, Japan, Mexico, New Zealand, Republic of Korea, Russia, Singapore, US, India, Indonesia, Malaysia, Netherlands, Norway, Peru, Republic of Philippines, Thailand, Tonga, United Kingdom
 - Observe: Bangladesh, Brunei, Brazil, Cambodia, Papua New Guinea, Vietnam, and Sri Lanka





MDA - Aegis BMD



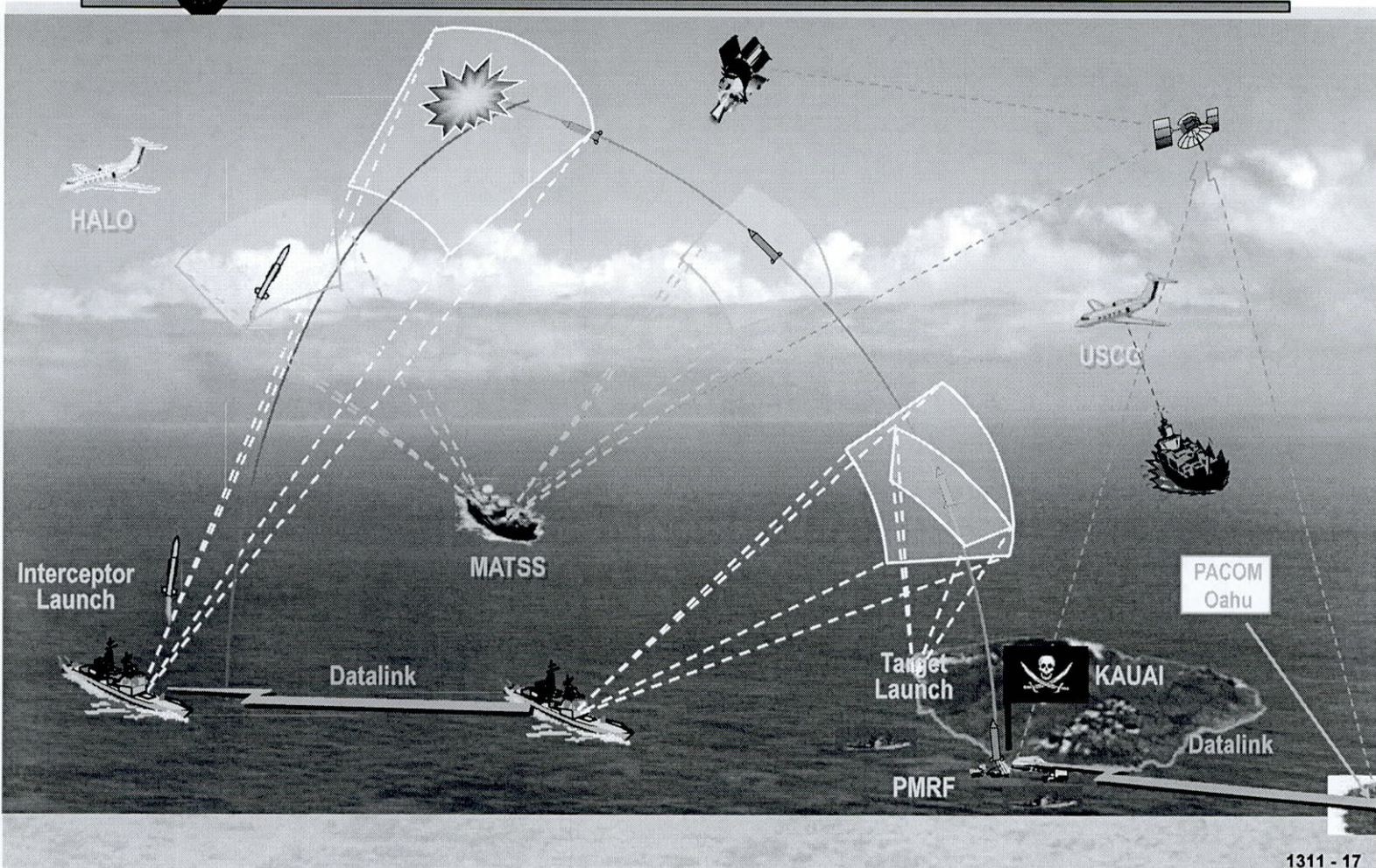
SM-3 Concept of operations



- Began trials in 1997
- Live Missile Launches starting 1999
 - 65 Support Events
 - » Low Altitude SM-2
 - » High Altitude SM-3
 - » Pre-RIMPAC Tracking Exercises
 - » Japanese Cooperative Development
- Intercepts 2002 to present
 - 25 SM-3 Hit to Kill Intercept Events
 - FY12/13 missions:
 - » FTM-16 E2 9 May 2012, Completed
 - » FTM-18 26 Jun 2012, Completed
 - » FTM-20 12 Feb 2013, Completed
 - » FTM-19 12-14 May 2013
- ABMD test op tempo steady in out years
 - 2-3 campaigns per year (missions at RTS may impact number at PMRF)
 - Aegis 4.0.1 SM-3 Blk IB flights in support of full rate production milestone in FY-13



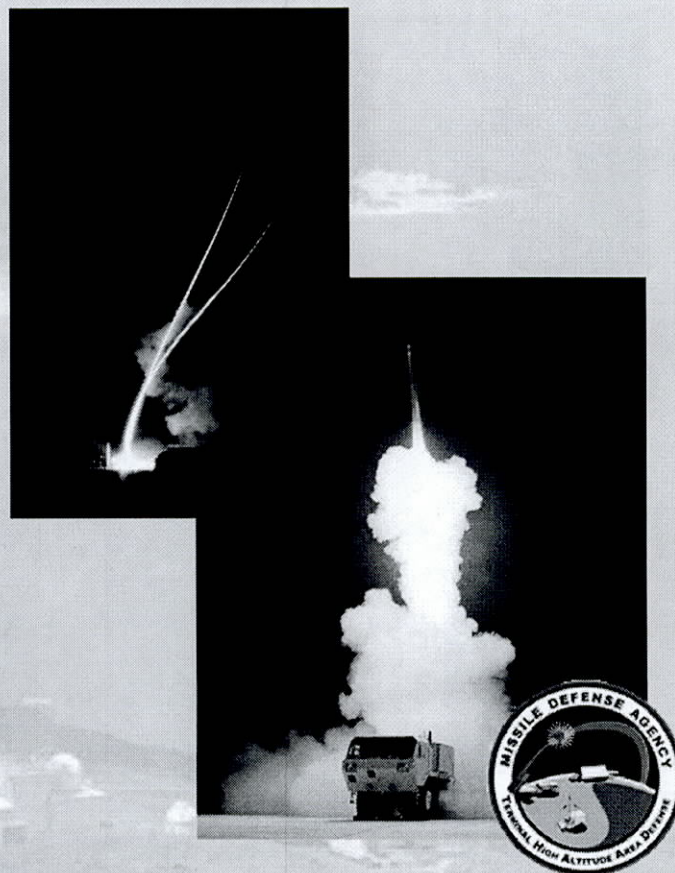
Ballistic Missile Defense Aegis CG/DDG Scenario





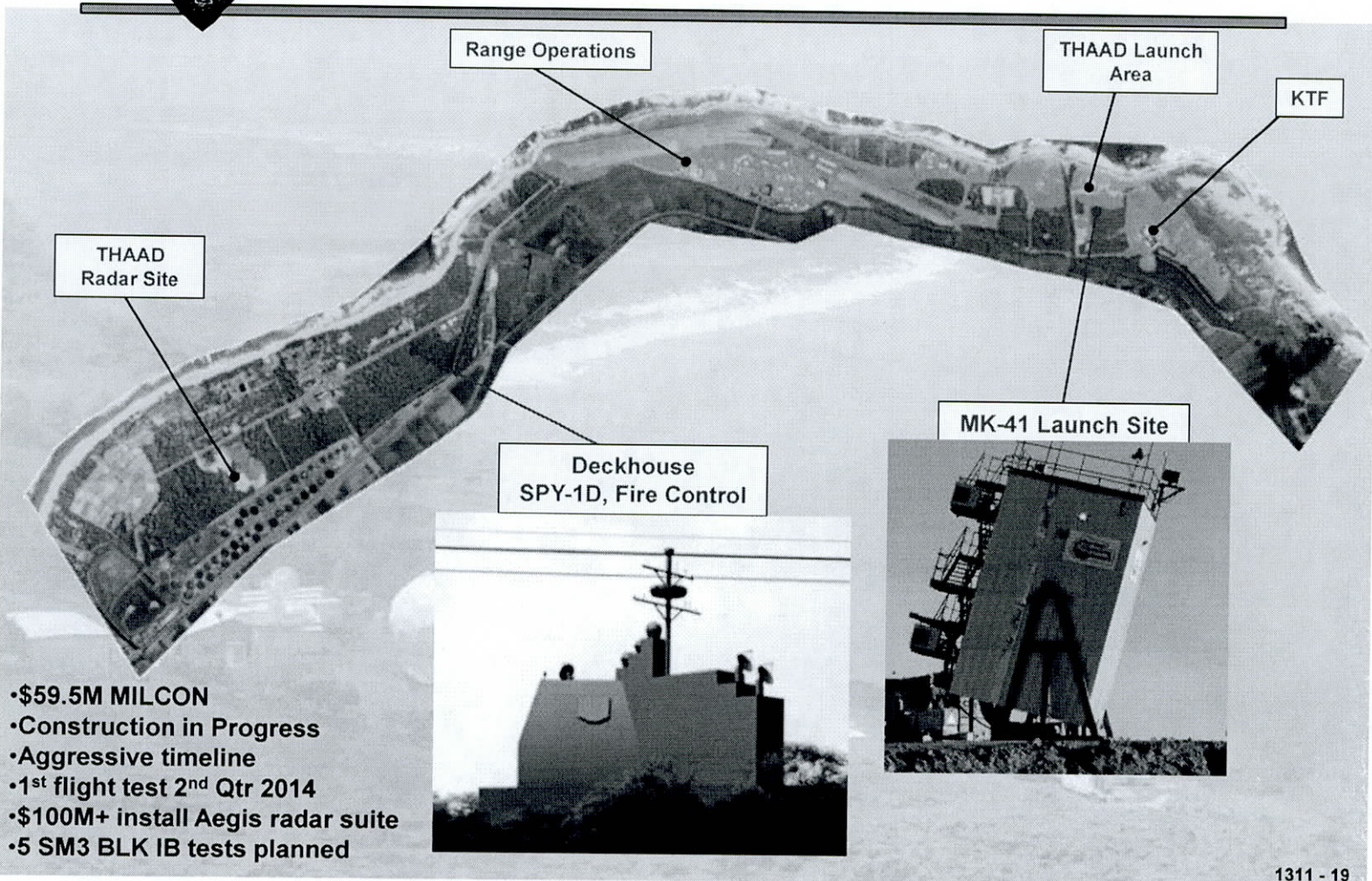
MDA - THAAD

- Moved to PMRF from White Sands Missile Range in 2006
- 1st Test at PMRF Jan 2007
- 9 THAAD Interceptor Launches (7 missions)
 - All Successful
- Last Mission: FTT-12 (OT)
 - Completed 04 Oct 2011
- Two year gap from FY12-14
- MDA Integrated Master Test Plan
 - Future THAAD missions on 18 month centers
 - Next PMRF Mission: 4QFY14 - FTT-11a



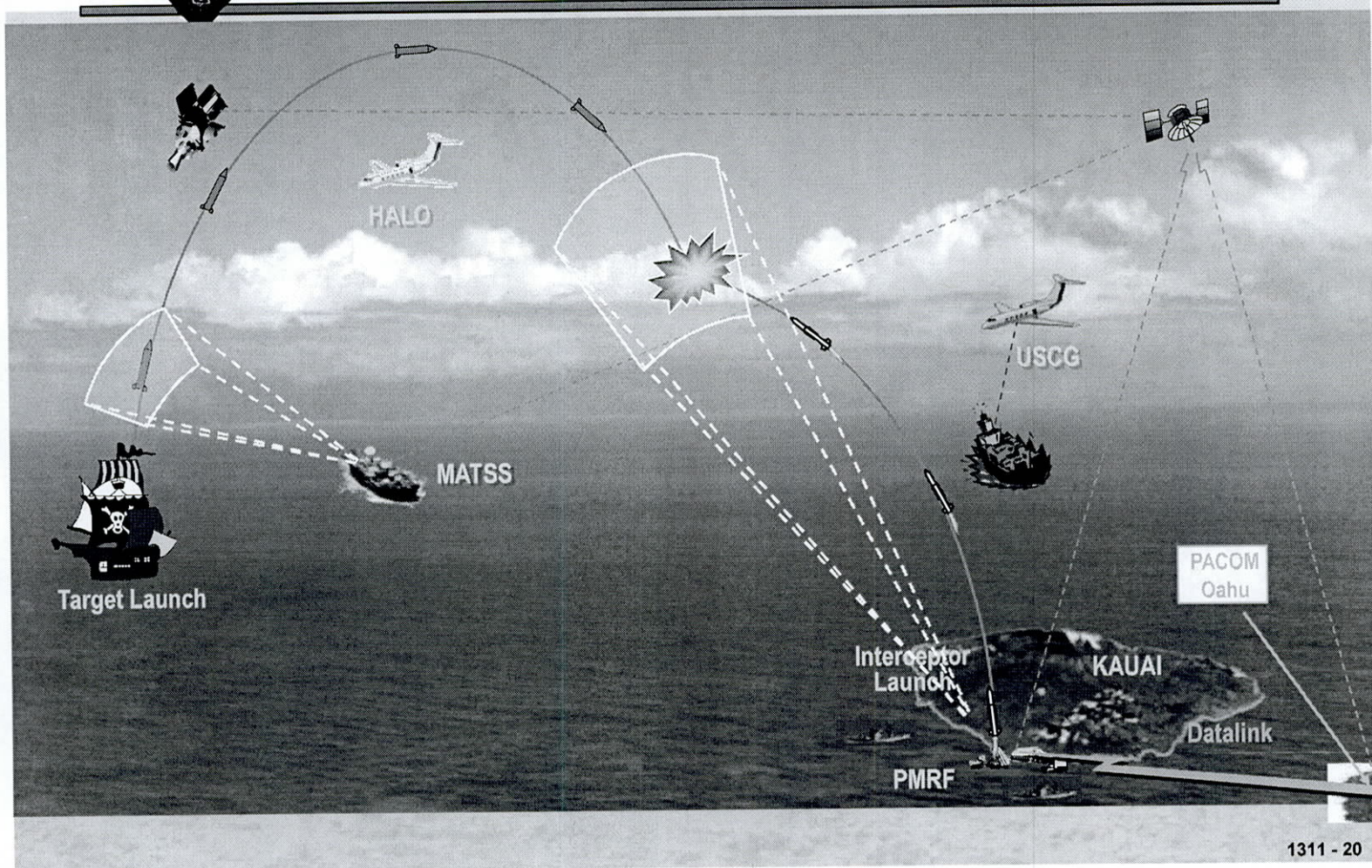


Aegis Ashore Footprint at PMRF



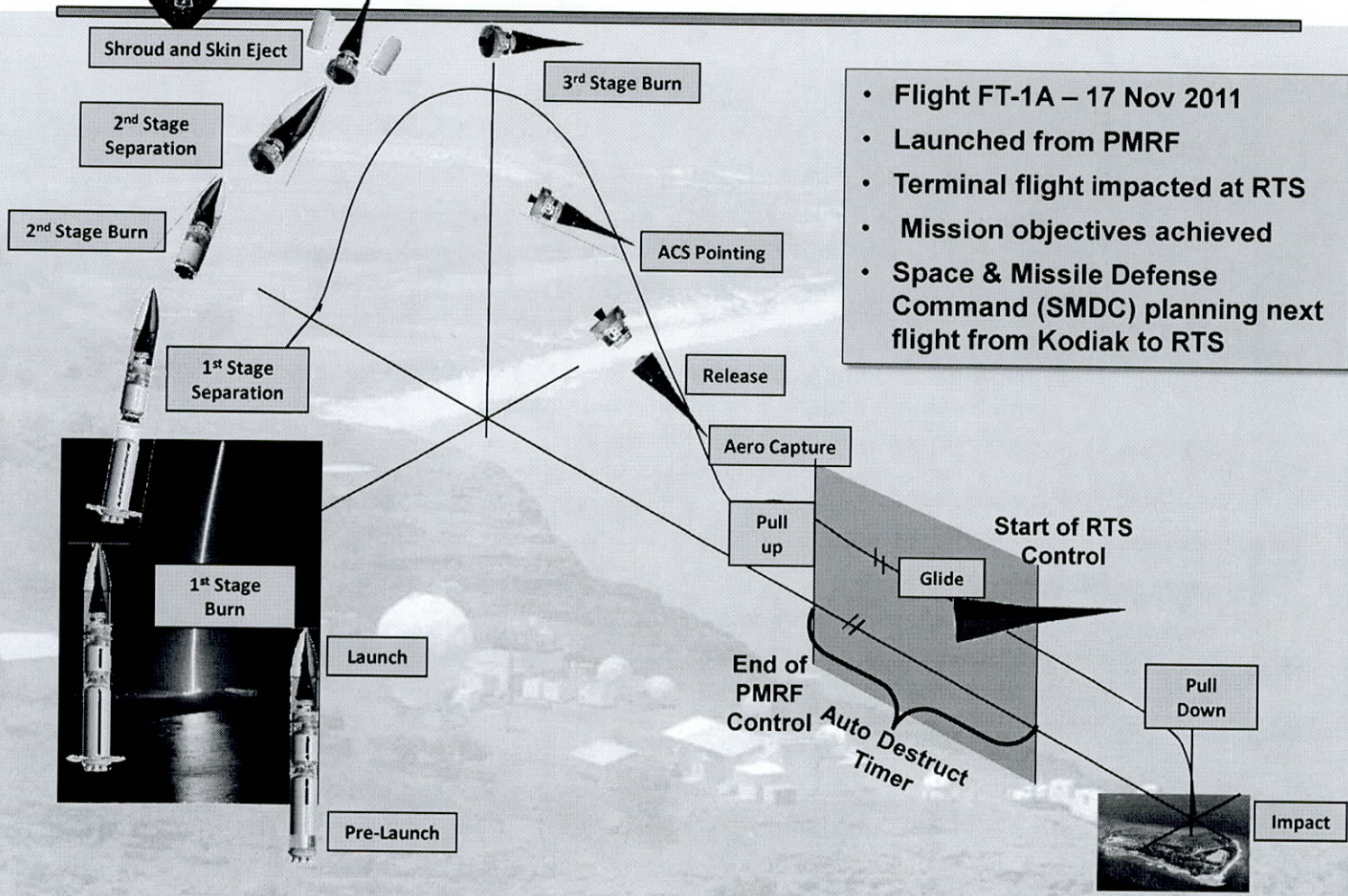


Ballistic Missile Defense THAAD & Aegis Ashore Scenario





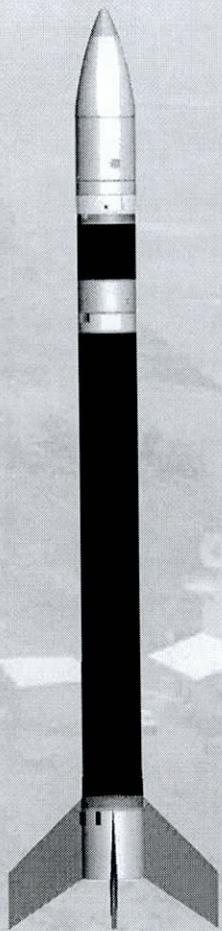
Advanced Hypersonic Weapon



- Flight FT-1A – 17 Nov 2011
- Launched from PMRF
- Terminal flight impacted at RTS
- Mission objectives achieved
- Space & Missile Defense Command (SMDC) planning next flight from Kodiak to RTS



Super Strypi

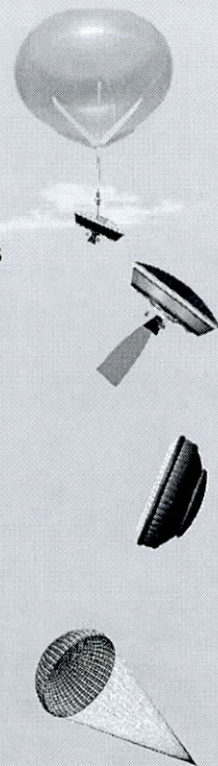


- **Program Sponsor: Office of Responsive Space (ORS)**
 - Originated with the University of Hawaii, Hawaii Space Flight Laboratory (HSFL)
- **Super Strypi is ORS's #2 Priority**
 - Program NEPA Environmental Assessment /FONSI is complete
 - Launcher/Launch Pad refurbishment underway
- **Initial Operational Capability goal: Oct-Dec 2013**
- **Objectives**
 - Conduct two demonstration space launches from PMRF using a low cost launch system based on existing technologies
 - » SPARK: Launch Vehicle Designation
 - » Lift requirement: 250 kg to 400 km sun-synchronous orbit from PMRF
 - Increase low-cost access to space for DoD, NASA, academic, & comm payloads
 - » E.g., short-duration technology demonstration missions
- **Benefits**
 - Create workforce training opportunities
 - Long-term commercial use of DOD facilities on reimbursable basis



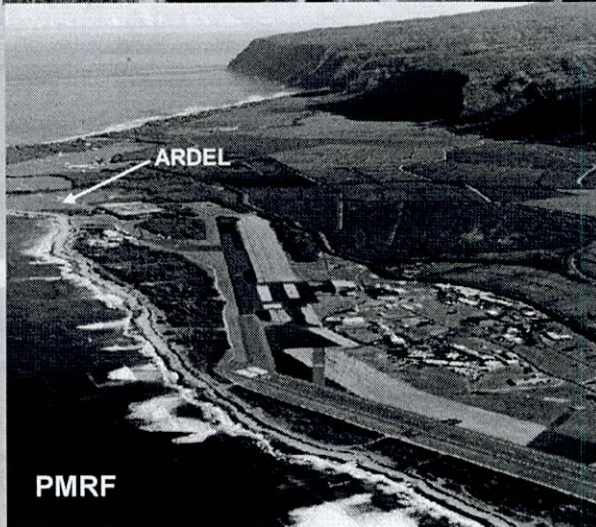
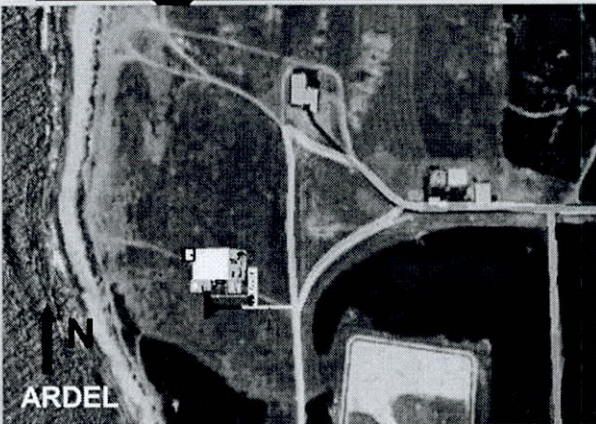
Low Density Supersonic Decelerator (LDSD)

- Mars landing – reduced gravity & atmosphere
- NASA developing new supersonic inflatable decelerator and parachute technology
 - 6 and 9-meter diameter Mach 3.5 inflatable decelerators
 - 30-meter diameter Mach 2+ ringsail parachute
- Test in Earth's stratosphere at supersonic speeds
 - Simulate operation in the thin atmosphere of Mars
- Concept of Operations:
 - Launch payload to 100K+ feet on huge balloon
 - Detach, ignite rocket, payload soars to 200-300K feet
 - Freefall to earth, parachutes deploy, soft landing
- EA completion Spring 2013
- 1 Demo FY14, 4-5 Demo FY15
- Recover balloons and payload





Advanced Radar Detection Laboratory (ARDEL)



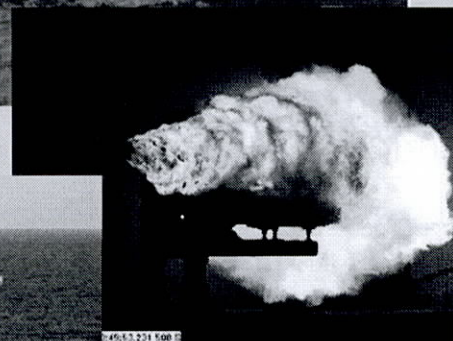
- Jan 2012 \$20M MILCON comp / 17K ft² facility
- Develop/Test next generation combatant radar
- 2012-2014 \$100M+ System, gen, & radar install
- Testing late 2014 vs Ballistic & cruise missiles
- Radar Configuration
 - Air & Missile Defense Radar (AMDR)
 - AMDR-X (SPY-3 DDG-1000) Horizon search & track
 - AMDR-S (SPY-1 CG/DDG) BMD, wide area search & trk
- LM, Raytheon, & North Grumman Compete





Directed Energy & EMRG

- **Directed Energy**
 - Four laser programs since 2008
 - PMS-405 Directed Energy Environmental Assessment on-going
 - Solid State Laser tests: 2016/2017
- **Electro-Magnetic Rail Guns (EMRG)**
 - PMRF, Wallops, and Kawajalein identified test sites (2008 study)
 - » No one range can support all test requirements.
 - Transportable EMRG test bed for testing on the appropriate range
 - Land Based Rail Gun (32MJ)
 - » 2017-2018
 - EMRG (20 MJ)
 - » Land-based tests: 2017-2019
 - » At-sea tests: ~2021





MILCON Project Program

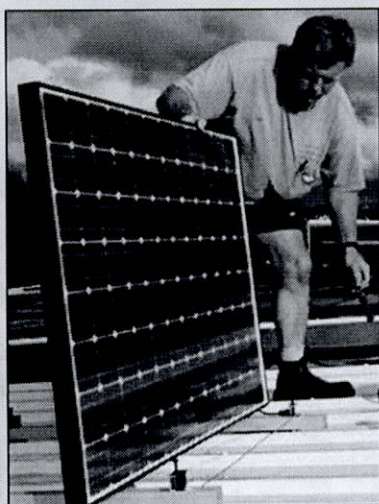
| FY | PROJECT # | MILCON PROJECTS IN CONSTRUCTION | COST (\$M) | ECD |
|------|-----------|---|------------|--------|
| 2010 | P-627 | Aegis Ashore Missile Defense Test Center, MDA | \$59.5 | Aug-13 |
| 2012 | P-400 | Replace North Loop Electrical Distribution System, PMRF | \$5.6 | Jan-14 |

| FY | PROJECT # | MILCON PROJECTS, CNO INITIATIVES, SPECIAL PROJECTS | COST (\$M) |
|---------|-----------|--|------------|
| 2013 | RM12-1499 | Install Energy Management System at PMRF | \$0.7 |
| 2014/15 | P-411 | PMRF Power Grid Consolidation Phase I (ECIP) | \$17 |
| 2015 | P-415 | PMRF Power Grid Consolidation Phase II (ECIP) | \$7 |
| 2015 | ST12-2141 | Nohili Culvert Repair, PMRF (CNRH's #1 Ranked Special Project) | \$1.1 |
| 2016 | P-410 | Consolidated SEN Dan Inouye, Range Operations Complex | \$30 |
| 2018 | P-425 | Nohili Ditch Construct Pre-Fabricated Bridge | \$3.39 |
| 2018 | P-405 | Construct Installation Perimeter Fence | \$4 |
| 2018 | P-402 | Upgrade Power Plant & Electrical Distribution System, PMRF | \$44.37 |

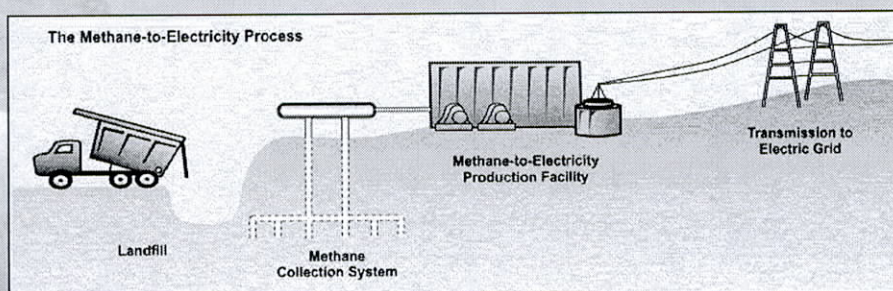


Energy Security

PMRF GOAL = A 100% non-fossil fuel powered Navy Base by the year 2015



- A \$6.6M ARRA project, roof top PV systems on 10 PMRF buildings, 600KW of Renewable Energy (RE) to PMRF grid.
- Solar MACC. A Joint DoD & Hawaii power purchase agreement, 2-3 acre PV array field, add 1+ MW of RE.
- A Land Fill Gas to energy project partnership with the County of Kauai & KIUC to buy methane gas produced at the adjacent county landfill for use as a fuel source to generate 1.6+ MW of alt energy to the PMRF grid.
- Total generated power of initiatives ~ 3.2MW.



PMRF Goal: First Net Zero USN Base by 2015



Roundtable - Other Topics

- **HIANG (Hawaii Air National Guard)**
 - 293rd Comm Squadron
 - PMRF Tenant with compound
 - Approx 10 FTE
- **Kauai Test Facility (KTF)**
 - Dept of Energy (DOE) circa 1950s
 - Managed by Sandia National Labs
 - Slow divestiture process to USN
- **Sequestration / CR / Furlough**
 - GS hire freeze Dec 2012 /10% FTE
 - Potential 22 GS furlough days
 - Moderate impact to range users
 - Descope Manu Kai Contract FY12/13/14
 - Crash & Fire, Landscape, Security, Inst
 - 5-10% contract workforce, 30-60 FTE
- **Niihau Island & Robinson Family**
 - Friends of Navy
 - Contract for services
- **PMRF Beach Access**
 - Hawaii law, beach access for population
 - Access, force protect, safety, environment
 - Prior 1940
 - 1940 – 11 Sep 2001
 - Sep 2001 – 2006
 - 2006 MWR Card Pass
 - Sep 2012 Legal Review / Increased Access
 - Manu Kai Guard breach
 - DLNR enforcement
 - Mr Aila Visit
 - Danger Zone
 - Path Ahead



PMRF - An Important Economic Pillar

- **PMRF is Kauai's #1 single largest high tech employer, #3 overall**
- **Estimated \$132-plus million annual impact on the local economy**
 - Roughly \$82M contracts/services plus \$50M salary/benefits
- **Additional impact comes from surge populations for test events**
 - Test events bring 200 - 600 visitors each, average 4-7 events per year
 - Injects ~\$3M into local visitor industry each event
- **Military Impact to Hawaii (FY12)**
 - 18% Gross State Product (GSP), 16% of Hawaii's employment
 - \$11B defense spending, \$3.5B earnings, 100K employed
- **Tourism vs Military Impact to Hawaii**
 - 2012 record tourism year, 8 million tourists, 10% increase vs 2011
 - 2012 tourists spent \$14.3B, increase of 20% over 2011

PMRF: Kauai's #1 High Tech, #3 Overall Employer



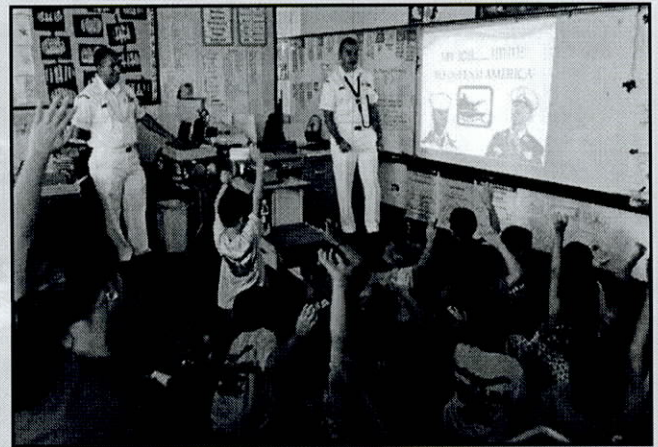
Kauai's Keiki... PMRF's Future

Challenge: Recruit and retain highly qualified engineers

Solution: Inspire excellence in math and science in the keiki of Kauai

PMRF Sailors actively participate:

- School Partnership Program
- Aloha Ike
- Hawaii Space Grant Consortium (HSGC) Internship Program
- Robotics & Rocketry
- Athletics coaching



Awarded 20 Sailor Volunteer Service Medals



Environmental & Cultural Stewardship



PMRF INITIATIVES

- Agricultural Preserve
- Albatross Surrogate
- Wedge-tailed Shearwater
- Green Light Program
- Green Sea Turtle Sanctuary
- Eradicate Invasive Species
- Coastal Clean-up
- Cultural Preservation
- Beach & Littoral Recovery



CNO ENVIRONMENTAL AWARDS

2011

- Natural Resources Conservation, Team Award
- Natural Resources Conservation, Integrated Natural Resources Mgt Plan

2009

- Natural Resources Conservation, Individual

2008

- Cultural Resources Mgt

SECNAV ENERGY AWARD

2011

- Gold Level

Green Sea Turtle
Rescue,
May 2009



5 Environmental Awards Last 5 Years



Questions?

328

9510

SHOOT



RADAR

13040

7001 45

15.1

M 0.59

G 5.5

7.3

29.4 IAG

07:44 22E1

578
60
50
2

ENCLOSURE E

**Commander,
Navy Region Hawaii
Naval Surface Group Middle Pacific**

Senator Hirono

28 May 2013





WELCOME



Agenda

Priority / Focus

Responsibility / Oversight

Infrastructure

PMRF

Energy

Education

Environment

Waterfront

Q&A



CNRH 2013 Priorities



- Force Readiness, Education, Environment, Energy
 - LNG, Bio Fuels, Wind, Methane Gas, SPIDRs
- CR/Sequestration Impacts (Negative)
 - QOS /// QOL /// Workforce /// Waterfront
 - Force shaping... Hiring Freeze, RIFs, Furloughs
 - Delayed/deferred maintenance, training, operations
 - Chung-Hoon 33 day delay
 - Chafee 4 month delay in SRA
 - Fleet...maintenance, training, operations...fuel constraints
 - Out reach and engagement curtailed...4 July, etc
- Opportunities...RDTE; S&T; Future Force Structure
- USMC Land Availability Study
- HART



Sequester Overview



- CNIC Initial CR/Sequester Reduction: \$1.655B (23% of OMN)
 - Triggered 1 MAR 2013
- Strategy: Slow burn-rate immediately
 - Defer investment and recapitalization
 - Maintain Family programs
 - Coordinate service changes with Fleet and Stakeholders
 - Defer non-reversible actions



CNRH CR Impacts/Fairshare



- CNRH FY13 Budget: ~\$425M
 - Labor: ~ 20%
 - Hiring Freeze
 - 95 CNRH
 - 176 NAVFAC
 - RIF
 - 40
 - Utilities: ~ 24%
 - Facilities: ~ 38%
 - Non-Labor: ~ 18%
- SRM Reduction: \$61M
- BOS Reduction: \$28.4M

How are we doing it?

- Civilian Hiring Freeze
- Defer maintenance
- Reduce Travel
- Reduce BOS
- Reduce SRM
- Curtail QOL/QOS hours, etc
- Reduce Admin expenses
- Curtailing Training

What didn't change

- *Health and Safety Repairs*
- *Child care*
- *Family programs (child care family)*
- *Safe Harbor*
- *Overseas Shuttle services*



Operations Fleet Impacts (Cont)



- Port Operations
 - Strictly limited ship movements; 8 hours a day (e.g., 0800-1700); No weekend movements
 - Ship connect/disconnect only during normal working hours
 - Magnetic silencing ranges only during normal working hours; No deperming outside of regularly scheduled hours
 - Reduced service craft availability; No scheduled overhaul for 157 craft
 - Reduced Paint float availability; No paint float maintenance
- Fire
 - Delayed full implementation for shipboard firefighting hires (MIAMI lessons)
- Security
 - Reduced Access Control maintenance (e.g., gates, bollards, turnstiles)
 - Harbor Security Boat patrols reduced to meet OPORD/FPCON required minimums. HSBs moor in patrol zones vice active patrolling. Random patrols conducted.
- Emergency Management
 - Reduced Alarm sustainment and increased response time to Alarm system malfunctions



Other BOS Impacts



- Facility Services
 - Accelerate enterprise transition to reduced custodial and grounds maintenance
 - Reduce all prestige areas (e.g., Flag, SES, CO, Base gates) from COL 2 to 4
 - Joint Base/Region and AERB resourced to current Navy service levels
- Utilities
 - Adjusted building thermostat settings to 80F (summer) and 66F (winter)
 - Reduced interior/exterior lighting (e.g., waterfront, flight lines, parking structures and buildings)
- Transportation
 - Reduce permanently assigned vehicles
 - Reduce CONUS shuttle services for movement of Sailors/employees from/to remote operational sites



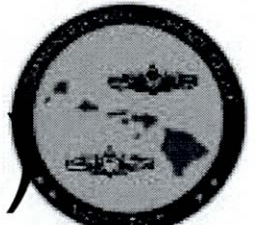
Family and Sailor Quality of Life Impacts



- MWR
 - Limit Gym hours to 90 hours per week
 - Limit Library hours to 40 hours per week
 - Limit Liberty Center hours to 50 hours per week
 - No more than one open pool per installation
 - No NAF grants from CNIC HQ for special events
 - 25% reduction of sports officials, lifeguards, and group exercise classes
- Cable TV
 - CATV will only be provided at C2 nodes, ROCs, EOCs, Fire Stations, Piers, Galleys, Family Service Centers, CDCs, and Fitness Centers
 - CATV will not be provided at other locations
- Bachelor Housing
 - Defer common area furnishing replacement
 - Cease funding overseas loaner furnishings



Family and Sailor Quality of Life Impacts (Cont)



- Galley
 - Elimination of non-meal hour support (e.g., midrats)
 - Reduced usage of “To Go” containers and other paper/plastic products to watch standers and other essential personnel

- Family Services
 - Level of service unchanged
 - Will not fund furniture/equipment replacement/purchases other than in support of transitions assistance and veterans employment

- Child Development
 - Level of service unchanged
 - Will not fund equipment/furniture repair/replacement



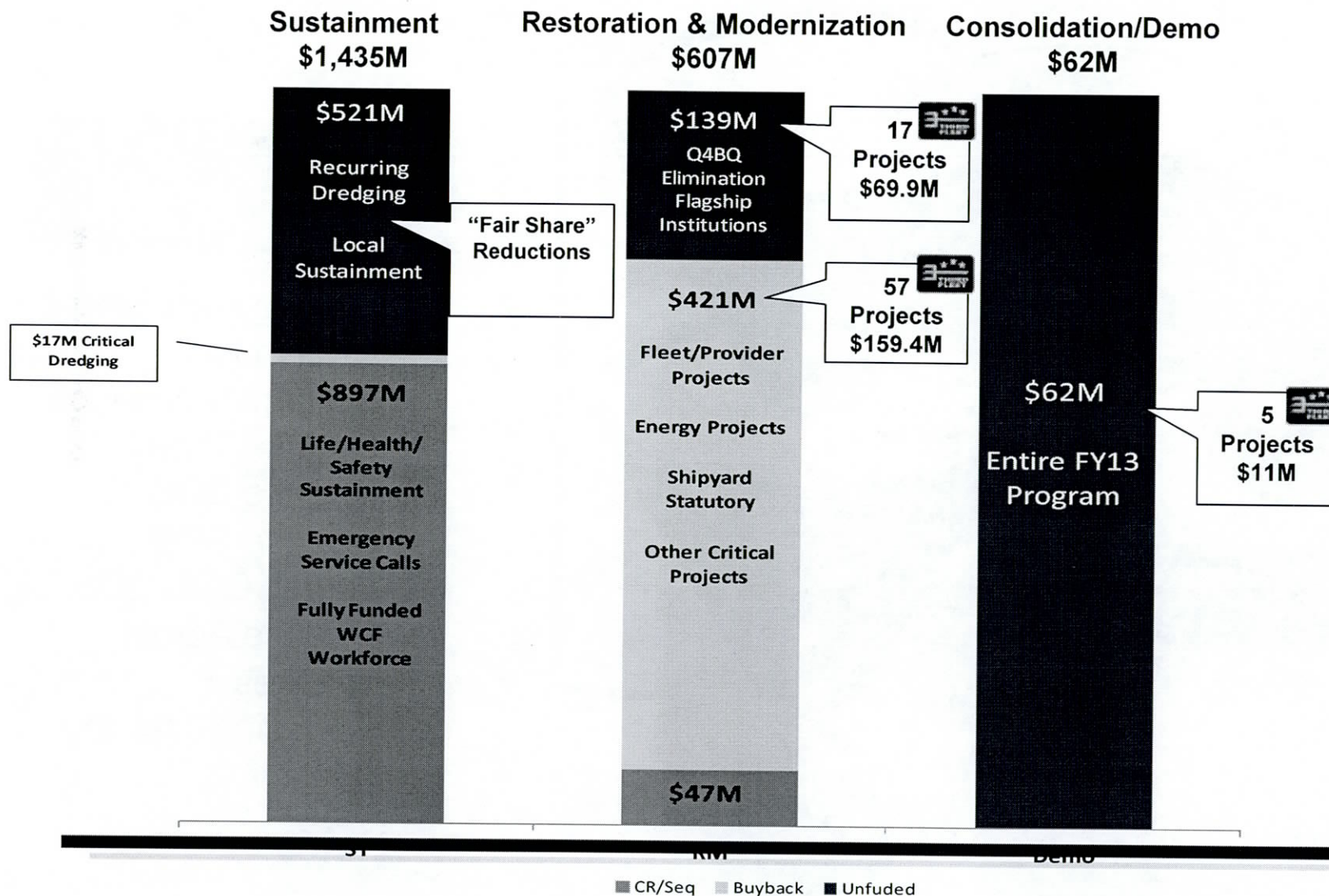
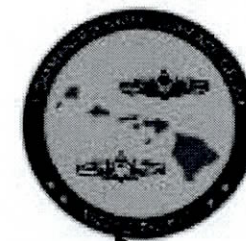
Post-HR 933 “Buyback”



- CNIC Reduction as of April 24: \$1.096B (16% of OMN)
- Base Operations Support (BOS)
 - Take the long view:
 - **Don't buy back service levels... maintain new norm**
 - **Maintain critical equipment (preventative maintenance, service craft overhaul, other emergent equipment repair)**
 - **Execute RIF**
- Facilities, Sustainment, Restoration, & Modernization (FSRM)
 - Prioritize:
 - **Mission support**
 - **Sailor QOL**
 - **Meeting mandated energy efficiency goals**
 - **Long term health of facilities**

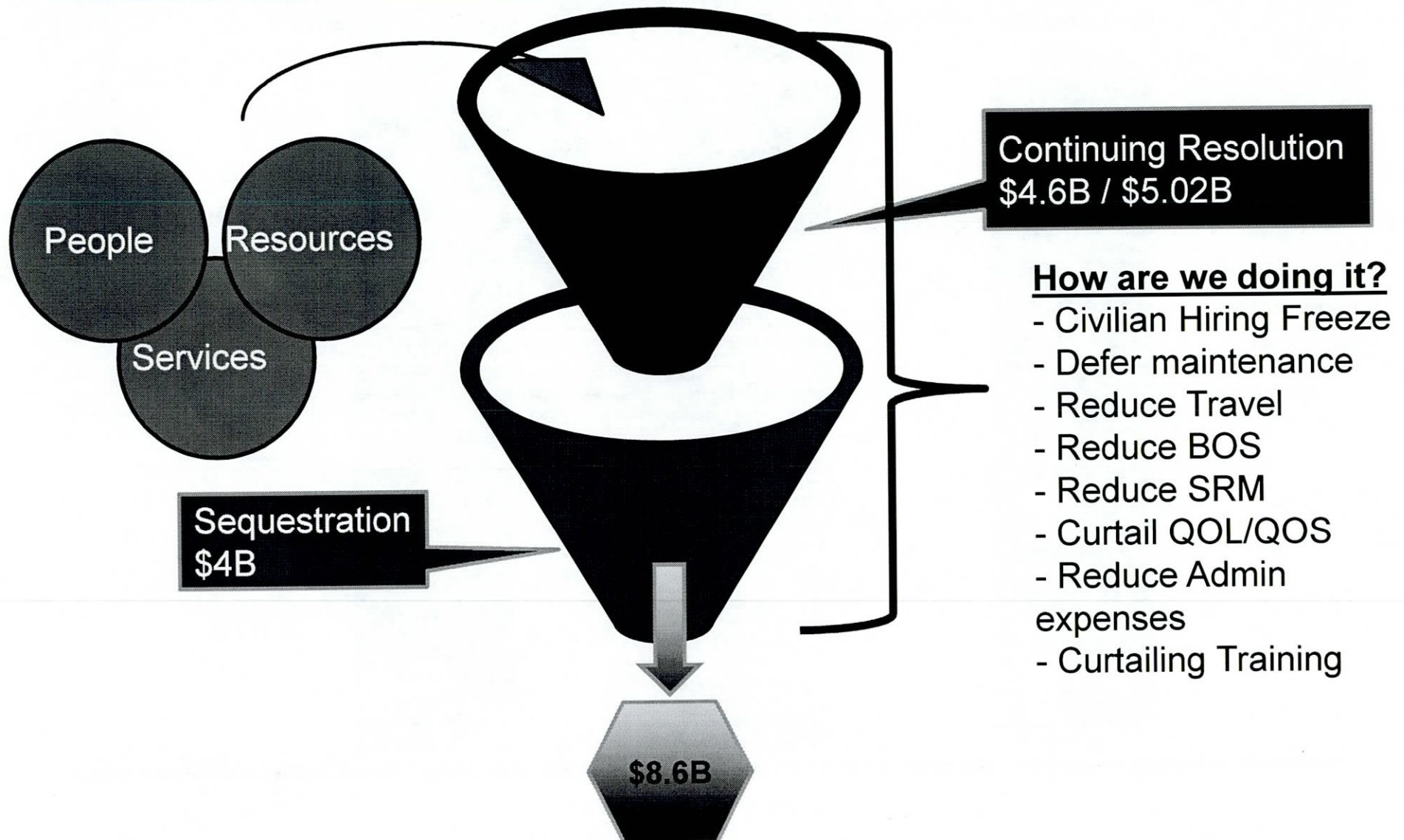


FSRM "Buyback" Overview





What it means to us...



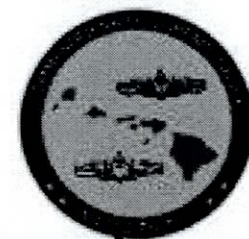


CR Impacts



What will Change

- ***If it breaks, it will remain broken.***
 - *Applies to: facilities, air/port equipment , weapon ranges, BOQs, Gyms, harbor boats, furniture, office equipment, phones etc*
- ***Things will break....no preventative maintenance on non-mission essential facilities and equipment***
- ***Port Ops strictly limited to 8 to 5***
- ***No weekend flight training across selected airfields***
- **NO facilities recapitalization**
 - *No ability to plan to for future MILCONs, etc.*
- ***Work place environment impact: Thermostats set to 60F/80F***
- ***Reduced hours/fewer services:***
 - *Applies to: Gyms, Pools, recreation centers, etc*
- ***No shuttles (busses or water taxi), increased reliance POV use/claims***
- ***Unfunded future requirements due to elimination of all investment***
- ***Current and Future Environmental Planning***
- ***Joint Bases aligned to standard Navy COLS (Reduced Services)***



Agenda

Priority / Focus

Responsibility / Oversight

Infrastructure

PMRF

Energy

Education

Environment

Waterfront

Q&A



Strategic Directions



CNO Terms of Reference

- Warfighting First
- Operating Forward
- Always Ready



CNIC
Commander's
Guide

- Enable Warfighter Readiness (Fighter)
- Support Tomorrow's Force (Fleet)
- Take care of our people (Family)



CNRH
Strategic Plan

- a Culture of Readiness.
- & diverse, high-performing, innovative workforce
- Efficiencies
- Infrastructure and Total Ownership Costs
- Strategic Engagement and Outreach

ALIGNMENT



NAVREG HI

Shore infrastructure, service support, and training...



Staff

MIL - 38
CIV - 2414
Contr - 69



PMRF

MIL - 60
CIV - 140
Contr - 800



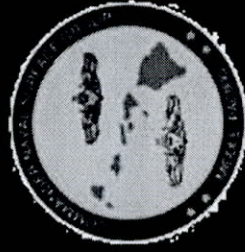
JBPHH

MIL - 962 ⁽³⁵⁶⁾
Navy / 606 AF
CIV - 3
Contr - 0



SURFGNUMIDPAC

Lead and manage the Surface Combatant Force homeported at Joint Base Pearl Harbor-Hickam (JBPHH), HI



MIDPAC

MIL - 40
CIV - 3
Contr - 0

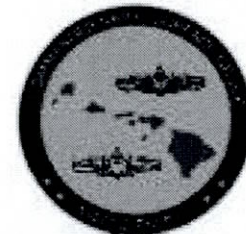


DESRON 31

MIL - 21
CIV - 0
Contr - 0



Commander, Navy Region Hawaii



- Commander, Pacific Fleet
- Commander, Pacific Air Forces
- Commander, 13th Air Wing
- Commander, Submarine Force Pacific Fleet
- Commander, Naval Surface Group Middle Pacific
- Joint Base Pearl Harbor-Hickam
- Pearl Harbor Naval Shipyard
- Navy Munitions Command East Asia Division
- Naval Computer & Telecommunications Area Master Station
- Pacific Missile Range Facility



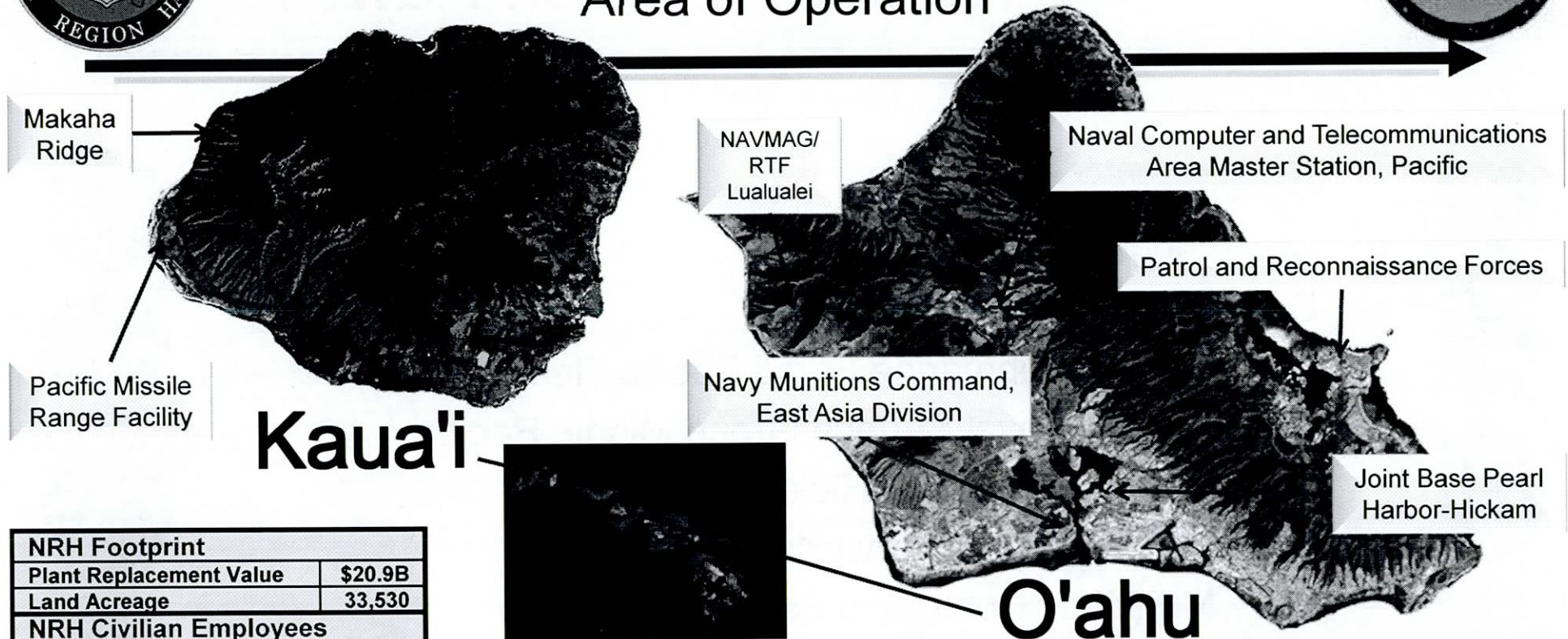
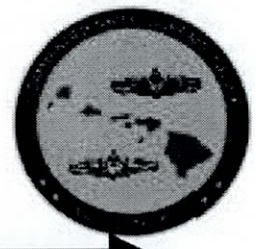
Personnel 4,017 => 1,121 Military / 2896 Civilian

Executor for CNIC



Navy Region Hawaii

Area of Operation



| NRH Footprint | |
|-------------------------|-------------|
| Plant Replacement Value | \$20.9B |
| Land Acreage | 33,530 |
| NRH Civilian Employees | |
| Appropriated Fund | 1,110 |
| NAF | 1,584 |
| Contractor | 202 |
| GRAND TOTAL | 2896 |

| QOL – Housing | |
|---------------------------|-------|
| Family Housing Units PPV | 7,096 |
| BQ (Barracks) - Bldgs. | 47 |
| NGIS (VQ) - Installations | 2 |
| - Bldgs. | 38 |

| QOL – MWR, Child Care, Fleet/Family | |
|-------------------------------------|-------------------------------|
| Fitness Centers/Gyms | 8 |
| Fleet/Family Support Centers | 3 |
| Child Development Centers | 11/12 centers 1267/1387 sp |

TOTAL: 59,473

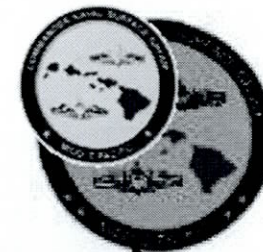
Total Navy NRH Force Served

14,785 Navy Active Duty
 17,514 Navy Family Members
 519 Navy Selected Reserves
 16,405 Navy Civilians
 4,780 Navy Mil Retirees
 1 Navy Operational Support Centers

*Joint Base serves 5,432 active duty Air Force 18 members and their families



COMNAVSURFGRU MIDPAC



USS LAKE ERIE (CG 70)



USS CHOSIN (CG 65)



PORT ROYAL (CG 73)



USS HALSEY (DDG 97)



USS O'KANE (DDG 77)



USS REUBEN JAMES (FFG 57)



USS PAUL HAMILTON (DDG 60)



USS CHAFEE (DDG 90)



USS HOPPER (DDG 70)



USS CHUNG HOON (DDG 93)



DESTROYER SQUADRON 31



USS MICHAEL MURPHY (DDG 112)

"Constant presence. 11 ships now, 11 ships in the future."



Agenda

Priority / Focus

Responsibility / Oversight

Infrastructure

PMRF

Energy

Education

Environment

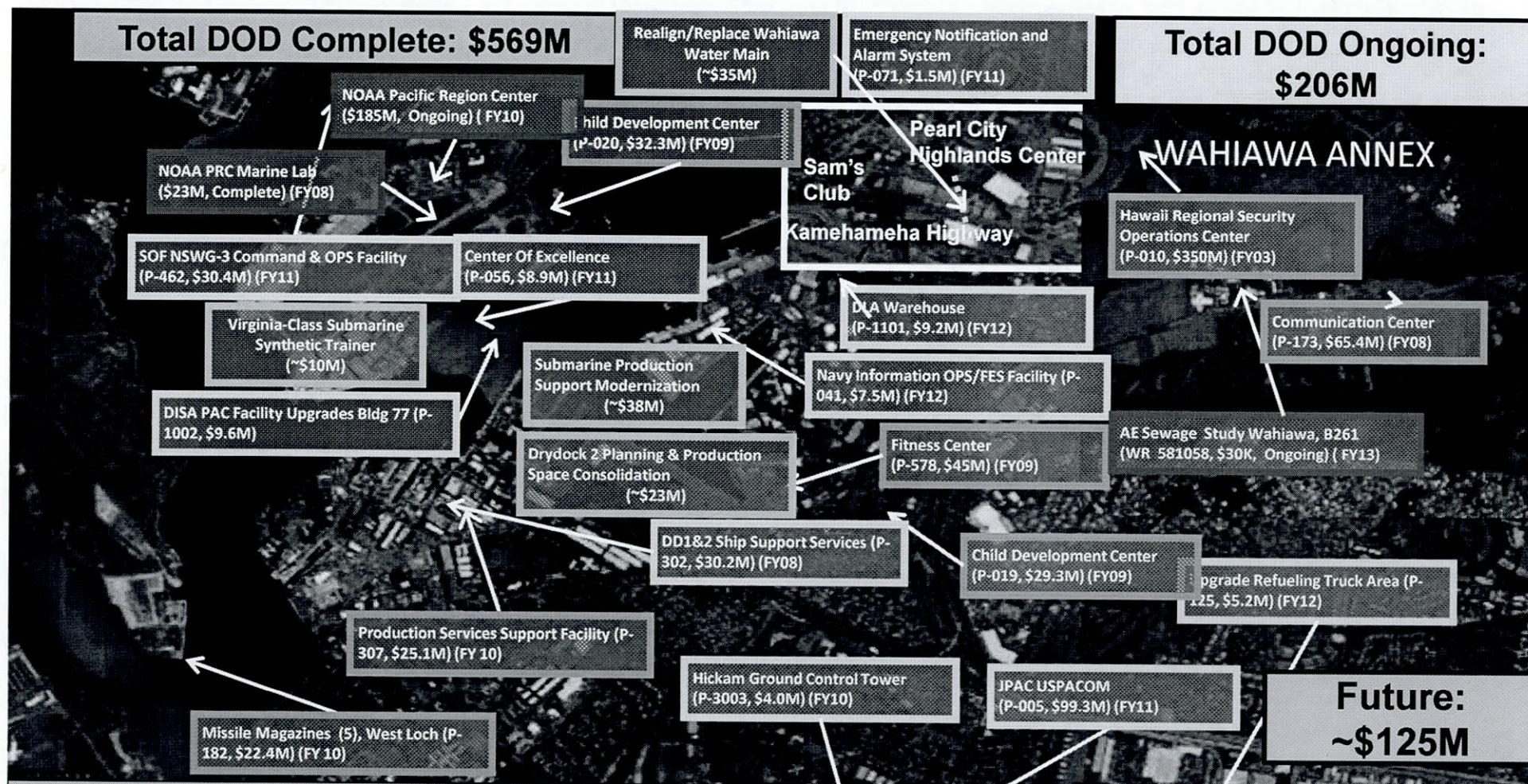
Waterfront

Q&A



JBP HH

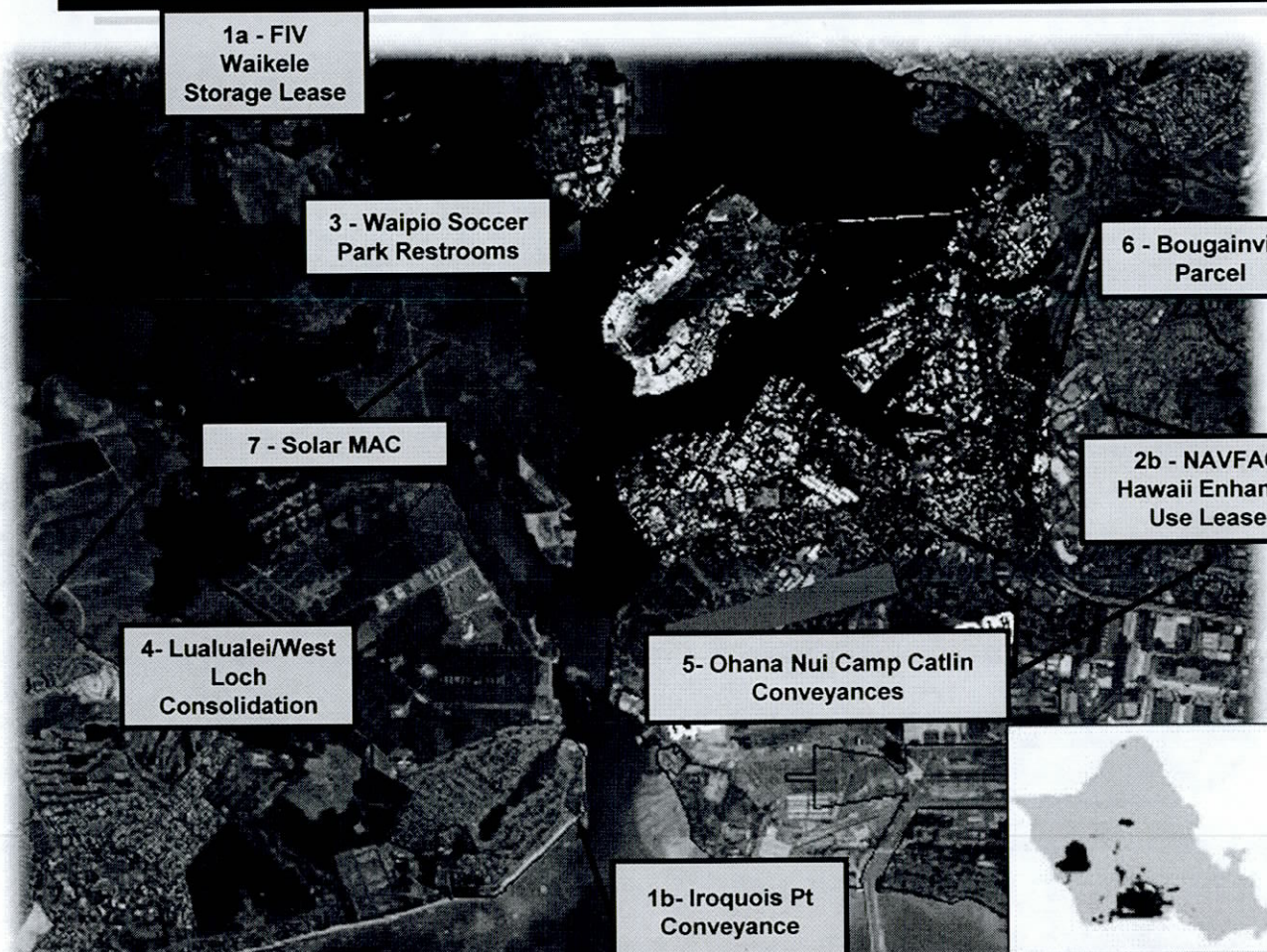
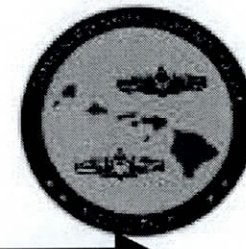
MILCON & NOAA Projects



Quality Construction, On time, Within Budget..
Fiscal Uncertainty...Challenges Sustainment, Renovation, Modernization



Real Estate Initiatives



1. FIV/Hunt Leases
 - a. Waikele Storage Lease
 - b. Iroquois Point/Waterfront at Puuloa
2. NAVFAC Hawaii Compound
 - Awaiting DASN approval
3. Waipio Soccer Park Restrooms
 - C&C to award construction contract by 30 Jun 13
4. Lualualei/West Loch
5. Ohana Nui/Camp Catlin Leases
 - 6 of 8 offers provided and accepted
 - 2 years to obtain financing
6. Bougainville Parcel
 - NHKS Special Legislation
7. Solar MAC

CNRH leveraging land and reducing footprint

Overview

Energy

Environment

Education

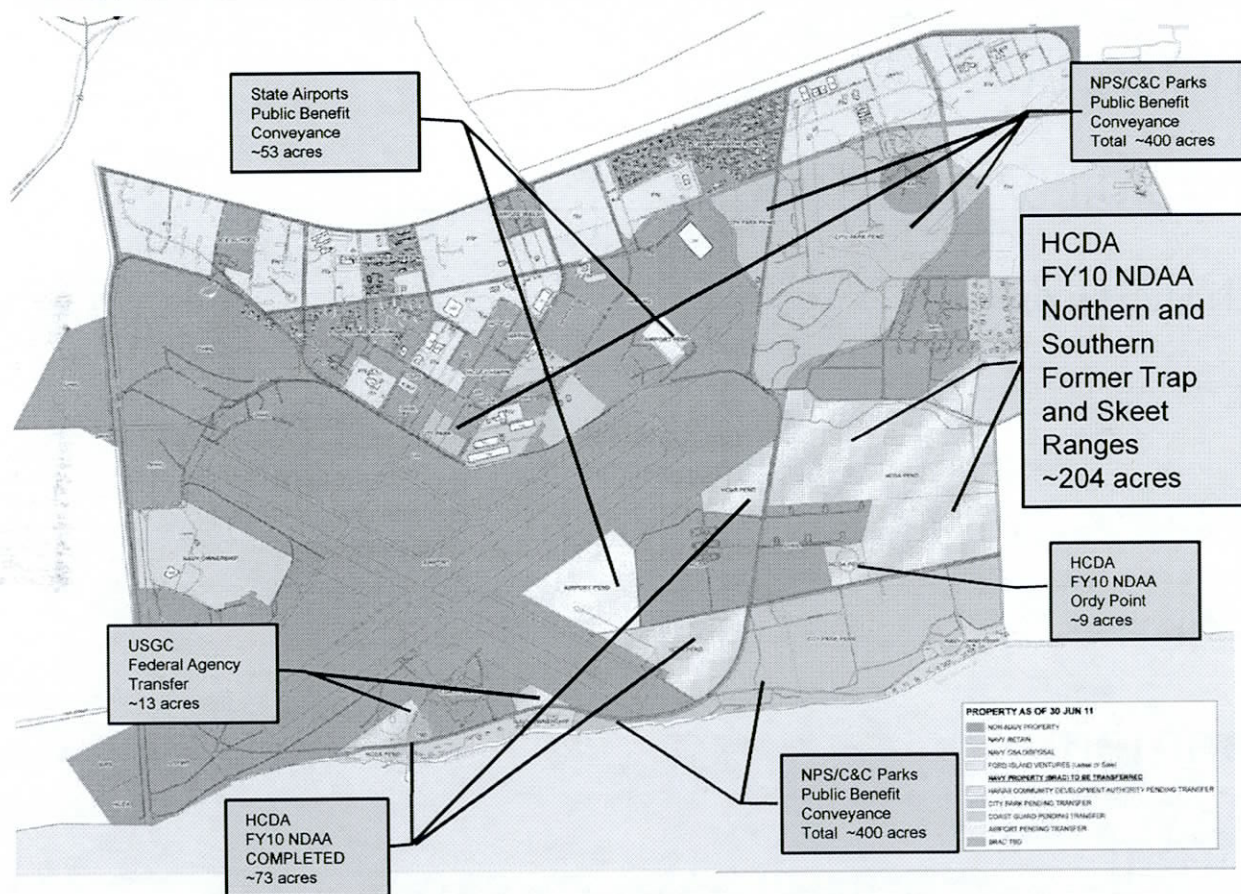
Real Estate

Force
Readiness

Opportunities

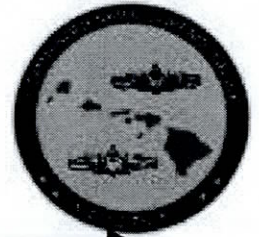


Kalaeloa Conveyance



- 1 Jul 99 – base closure, approx. 3,709 acres
 - BRAC assumed responsibility of 2,654 acres
 - Navy retained 1,055 acres
- BRAC Conveyances:
 - Completed:** approx. 1,971 acres
 - FY12, 73 acres to HCDA
 - Processing:** 466 acres to State, C&C, USCG
- Remaining: 204 acres** to HCDA stalled due to USFWS concerns over Ewa Plain Akoko and Critical Habitat.
- Navy Actions:
 - Divesting 485 acres** to Kalaeloa Ventures (formerly FIV)/Hunt under FY07 NDAA
 - Excessing 83 acres** through GSA process
 - Conveying utility systems
- Navy retains golf course, cabins, NFH Biosolid Treatment Facility

CNRH reducing footprint at Kalaeloa



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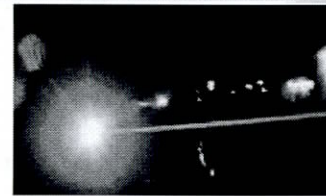
Q&A



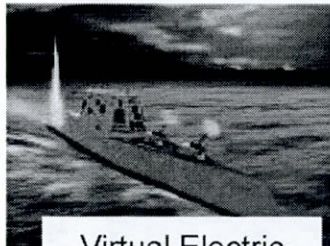
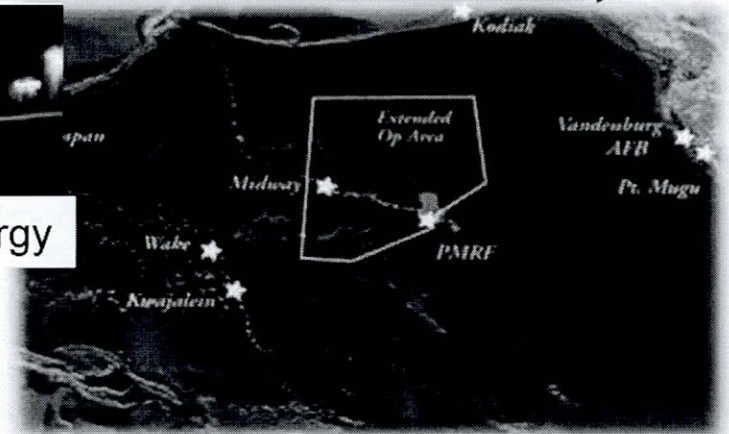
Pacific Missile Range Facility Overview



- **Mission: Test & Eval and CPF Training**
- **1,000 personnel (75 mil, 125 Govt, 800 Contractor)**
- **Main Base: 7 ½ miles x ½ nm, 10% fenced**
 - Outlying Areas: Makaha, Kokee, Port Allen
- **~\$132M annual impact to Kauai**
 - \$82M contracts/services plus \$50M salary/benefits
- **1,100 sq mi underwater range, largest in world**
- **Over 50% of workforce has called Kauai home for more than 5 years**
- **95% of workforce reside in community**



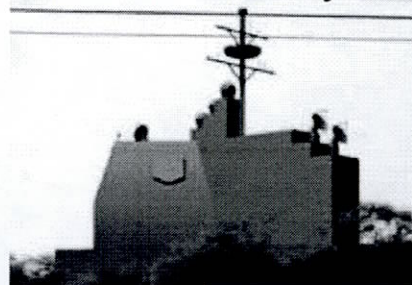
Directed Energy



Virtual Electric Ship



Advanced Radar Detection Lab



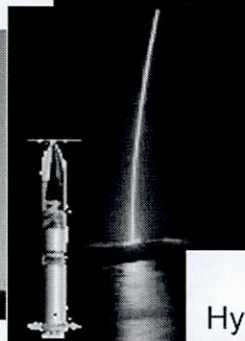
SPY-1D Fire Control



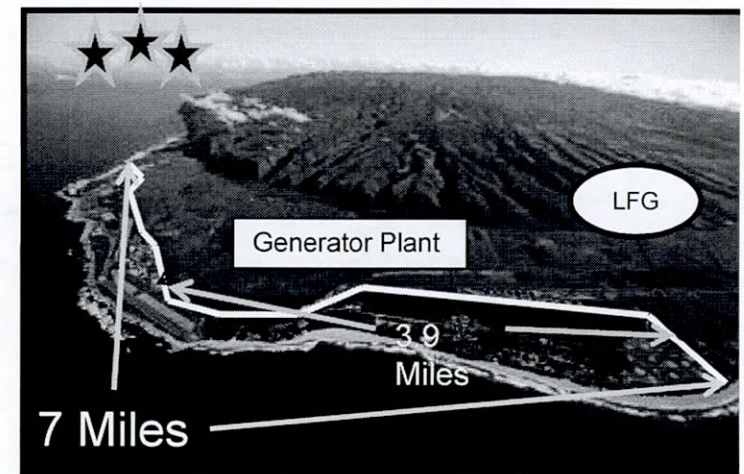
Electromagnetic Rail Gun



THAAD Launch Site



Advanced Hypersonic Weapon



#1 High Tech Employer, #3 Employer Overall / First Net Zero USN Base by 2015!

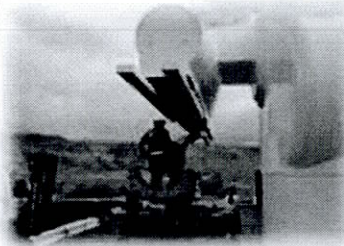
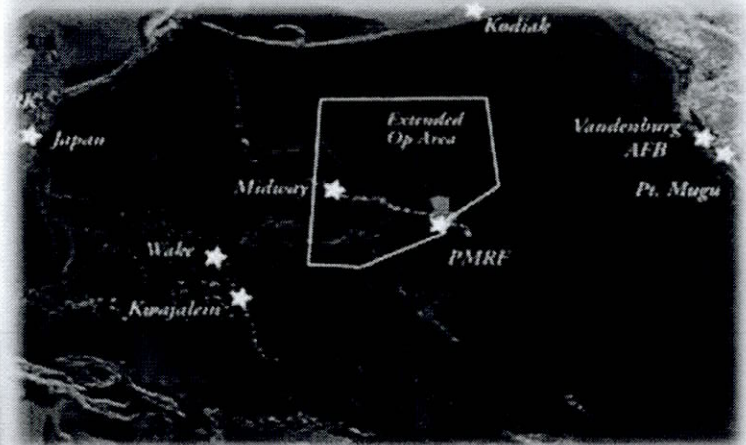
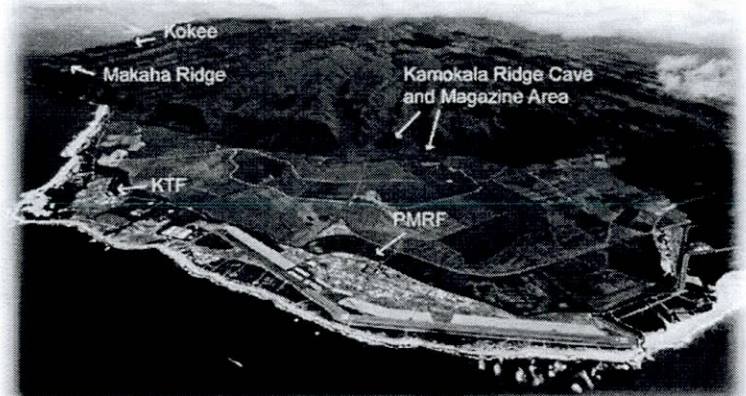


Pacific Missile Range Facility

PMRF Initiatives



- **CoC June 2013**
- **2012/13 Major Test & Evaluations**
 - 6 MDA Aegis BMD events, THAAD OT; Multinational
 - 1 Advanced Hypersonic Weapon test, global strike
 - SM-6 shot
- **2013 RDT&E - \$22.8 Million**
- **Potential Cost Effective Net-Zero Energy**
 - >3.5X national average electricity rate
 - 1.6 MW Landfill Gas (LFG) project in development
- **\$98.1M MILCON**
 - North Loop Electrical Distribution System
 - Aegis Ashore Missile Defense Test Complex
 - Advanced Radar Detection Laboratory
- **ISSUES:**
 - Encroachment
 - Energy (LFG)
 - Niihau



Public Access, Safety, Security, Test and Evaluation!



Agenda

Priority / Focus

Responsibility / Oversight

Infrastructure

PMRF

Energy

Education

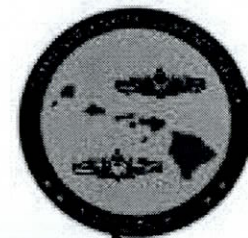
Environment

Waterfront

Q&A



Energy Goals



1. Energy Efficient Acquisition

Evaluation of energy factors will be mandatory when awarding contracts for systems and buildings.

2. Sail the "Great Green Fleet"

DON will demonstrate a Green Strike Group in local operations by 2012 and sail it by 2016.

3. Reduce Non-Tactical Petroleum Use

By 2015, DON will reduce petroleum use in the commercial vehicle fleet by 50%.

4. Increase Alternative Energy Ashore

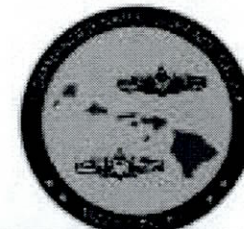
By 2020, DON will produce at least 50% of shore based energy requirements from alternative sources; 50% of DON installations will be net-zero.

5. Increase Alternative Energy Use DON-Wide

By 2020, 50% of total DON energy consumption will come from alternative sources...80GWH



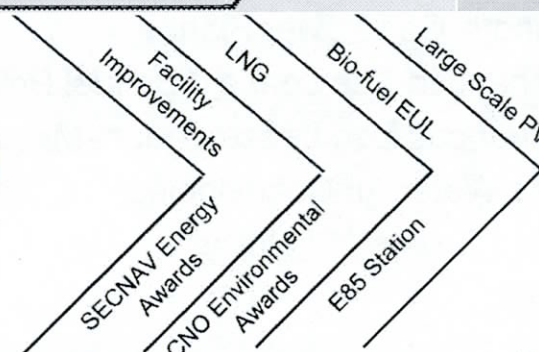
Energy Goals Progress



| 2003 | | Energy Independence & Security Act 2007 | National Defense Authorization Act 2007 | OPNAV INSTR 4100.5E | Executive Order 13514 | SECNAV Goals | 2020 | Hawaii Clean Energy Initiatives (HCEI) |
|---------------------|---|---|---|--|------------------------------|-----------------------------------|----------------------|--|
| 320 GWH (2003) | Energy Reduction | Reduce energy consumption 30% by 2015 (24% in 2013) | | Reduce energy consumption by 50% by 2020 | | | 160 GWH (2020) | 30% Efficiency by 2030 |
| 0 GWH | Renewable Energy | | 25% renewable energy by FY25 | | | 50% alternative energy by 2020 | 80 GWH (2020) | 40% renewable by 2030 |
| 6.1 B Gallon (2007) | Water Reduction | | | | Reduce water use 25% by 2020 | | 4.5 B Gallons | |
| ~700Kgal* (2009) | Reduce Non-tactical Vehicle Petroleum Use | | | | | Reduce petroleum use 50% by *2015 | ~350 kgal *2015 goal | 70% petroleum reduction by 2030 |

- ☐ Meeting Goal
- ☐ In Progress
- ☐ Below Baseline

On Track for 2020



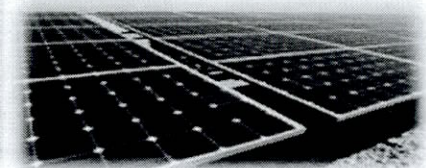
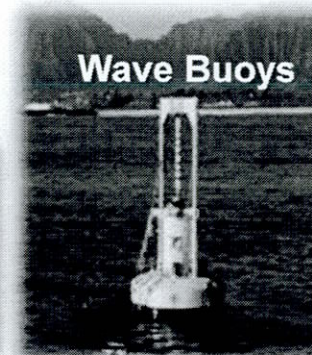
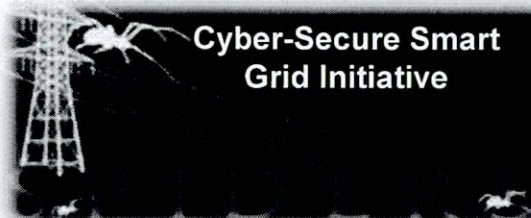


Region Energy Program



Goals and Objectives:

- Meet SECNAV Goals ... 50% Renewable Energy & Consumption Reduction by 2020
- Meet or Exceed Federal Energy Efficiency and Renewable Mandates
- Achieve Net-zero Energy installations
- Meet LEED Silver Standards
- Reduce CYBER vulnerabilities



Initiative Muscle Movers:

| | <u>Est. Completion</u> |
|--|------------------------|
| • Power/Energy Purchase Agreement (PPA) - Solar PV MAC (Multi-Megawatts) | 2014 |
| • Landfill Gas Power Plant | 2015 |
| • Enhanced Use Lease – Biofuel Power Plant/substation (50 MW peaking) | 2016 |
| • Enhanced Use Lease -- Multi-Megawatts PV | 2016 |
| • Sea Water Air Conditioning | In Development |
| • Wind Energy "Big Wind" | In Review |
| • LNG | In Review |

Leaning forward



Agenda

Priority / Focus

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Infrastructure

PMRF

Energy

Education

Environment

Waterfront

Q&A



Improving and Enhancing Educational Opportunities



- **Interstate Compact on Education Opportunities for Military Children (MIC3)**

- HI commission model for other states

- **Help promote Hawaii public schools**

- Improved test scores
- Increased attendance rates

- **Joint Venture Education Forum (JVEF)**

- Cooperation between military and public school
- Strong, positive relationships with DOE leaders

- **STEM Opportunities for Schools**

- PHNSY Robotics/SEAPERCH
- Student visits to high tech areas on base
- Bridge Primary and Secondary education

- **Outreach to School Administration**

- Host Principals/CAS visits to CNRH
- Build strong working relationships



Awareness/ Enrollment ... Good News Story



Agenda

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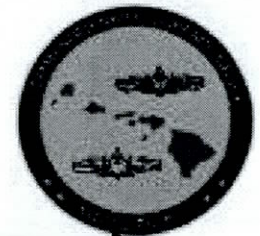
Environment

Waterfront

Q&A

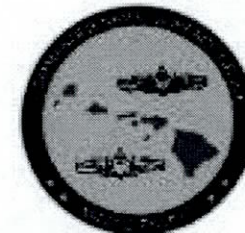


Environmental Stewardship



- **Best in the Navy SECNAV Award winning programs:**
 - Pacific Missile Range Facility – Natural Resources Conservation, Small Installation
 - Fleet Logistics Center – Environmental Quality, Team
 - Joint Base Pearl Harbor-Hickam – Cultural Resources Management, Installation
- **RIMPAC 2012 – Great Green Fleet**
- **Pearl Harbor National Landmark Historical**
 - Robust Environmental Planning and Historic Preservation programs (NEPA & Section 106)
- **Continuous Environmental Outreach**
 - Earth Month Events – Earth Day Fairs for Military Families and Workforce
 - Annual Makahiki with O'ahu Council of Hawaiian Civic Clubs and NHO's
 - Historic Preservation Awareness Day – Hawai'i State Capitol
 - Annual National Public Lands Day with Boy/Girl Scouts, Hawai'i Air National Guard, active duty military and DoD civilian volunteers
- **Hawaii-Southern California Training and Testing (HSTT)**
 - Navy is pursuing permits through the National Marine Fisheries Service (NMFS) for 2014- 2019 training and testing activities off the HI coast.





Agenda

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Waterfront

Q&A

WATERFRONT



RIMPAC 2012

- 22 Nations
- 47 Surface ships
- 6 Subs
- 206 Planes
- 25k People
- 500k gal Biofuel
- Economy influx:
'10 ~\$50M, '12 ~\$70M



Pearl Harbor Naval Shipyard

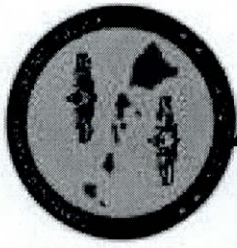


- Mitigating Force Structure Impacts
 - Managing FY13 budget reductions
 - Maintain industrial base
- Adjustments to Support Workload Level Loading
 - Facility, people, workload balance
 - Awarded Drydock 4 repairs for \$7.7 million
 - Environmental improvements
 - Preserve historic and operational value of asset
- Apprentice Program and Extensive Outreach Engagements
- Supports Future Surface Ship Force Structure

#1 Industrial employer in Hawaii, 4,500 strong!



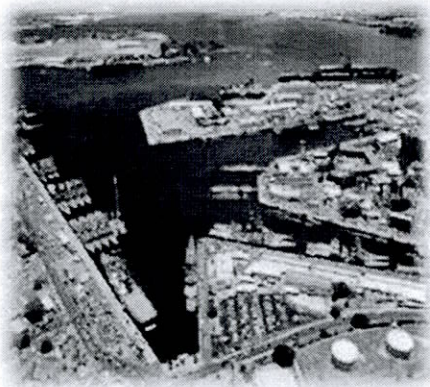
Island Partnerships and Outreach



Engagement with a purpose!!



Strategic Laydown



Waterfront Strat Laydown

- Ship/Sub
- FY2012 to 2020

P8/P3 Move (HI to WA)

- What remains at MCBH
- MC Air realignment – MV22
- 2013 to 2017



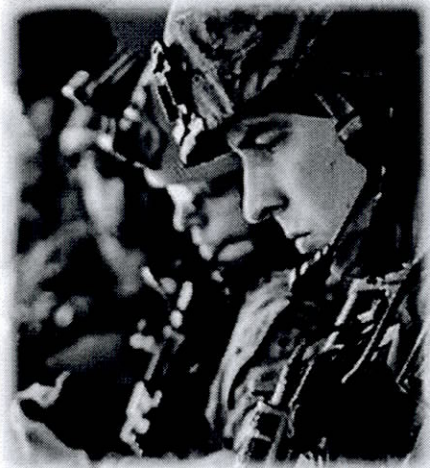
2020 Timeframe Navy Footprint Hawaii

III MEF restructure

- 2700 Marines to HI
- FY2020+

ARG

- Home port analysis
- In support of the Naval Board
- FY2020+



Impact of Force Structure...*Housing, Schools, Infrastructure...*



"Year in Review"



Wounded Warrior

Decommissioning

Pacific Trials 2012

Ford Island CDC Opened

RIMPAC





Agenda

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Q&A

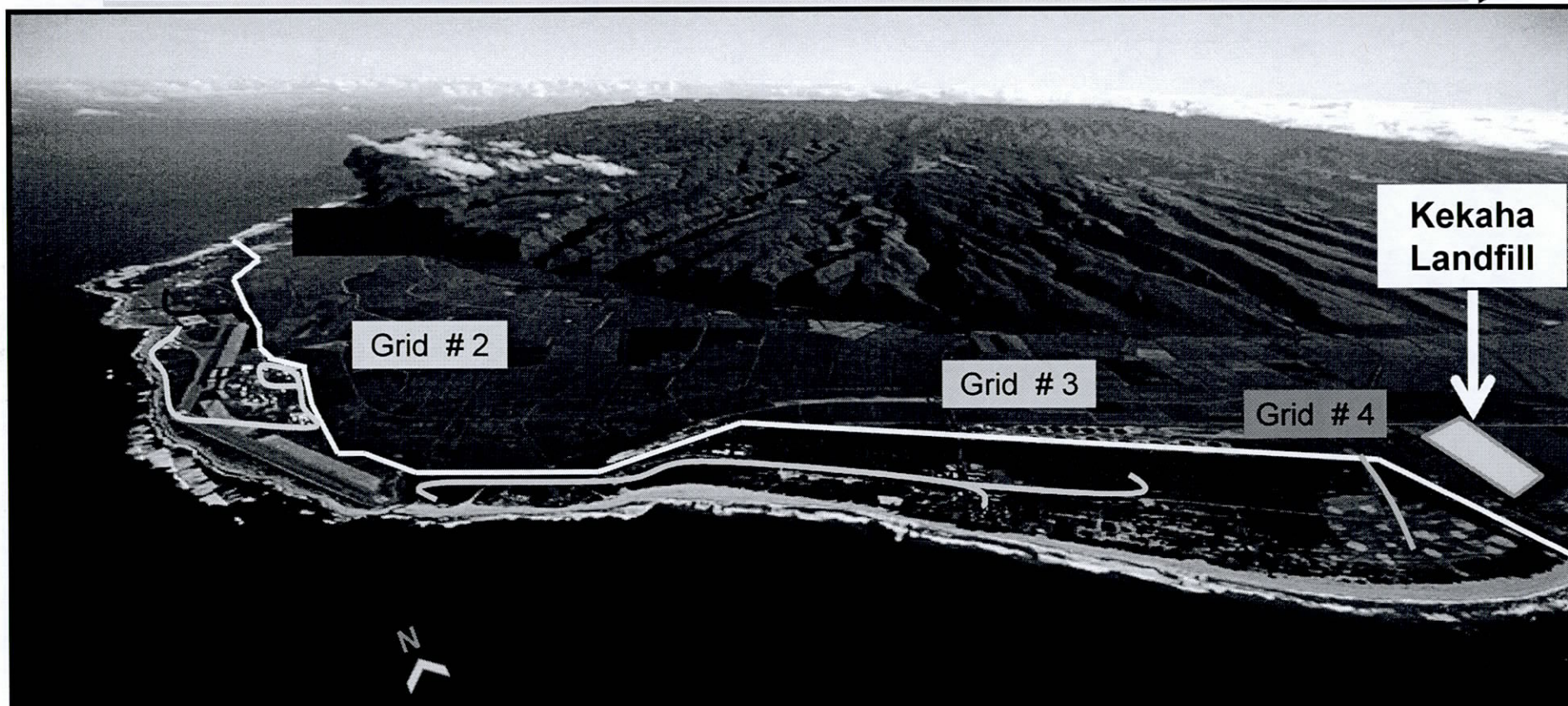
Mahalo Nui Loa





PMRF

Power Grids



Above is a map of PMRF including an estimation of the layout for the 4 separate electrical grids.* Note the current preponderance of electric load is on grids 2&3 where the concentration of buildings are.

The consolidation of all 4 grids is paramount to ensure renewable power can potentially be produced and distributed throughout the base.

Overview

Energy

Environment

Education

Real Estate

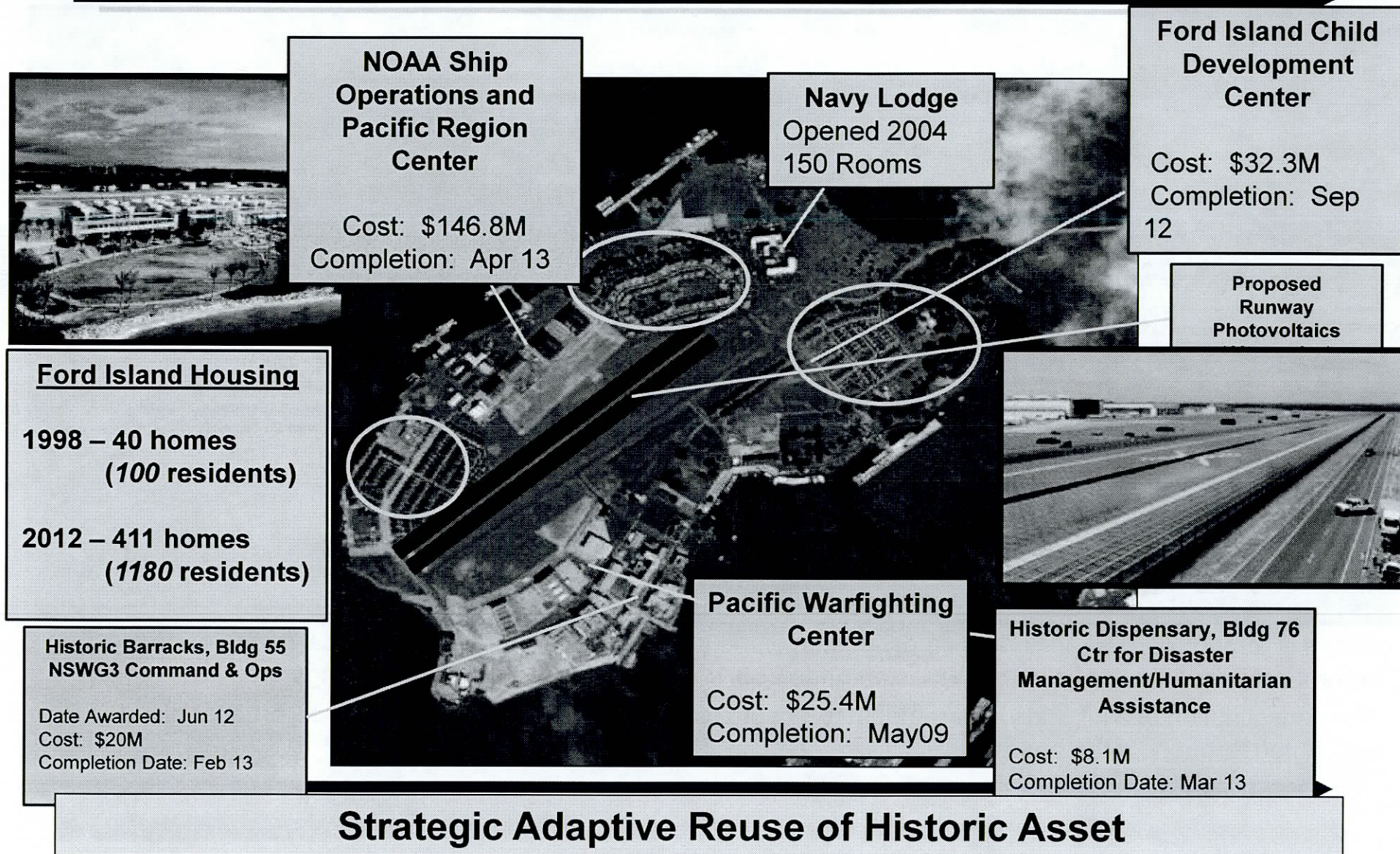
Force
Readiness

Opportunities



Ford Island Today

Housing and Operations Centric



Mahalo Nui Loa





Hawai'i Interisland Renewable Energy Program (HIREP) "Big Wind"

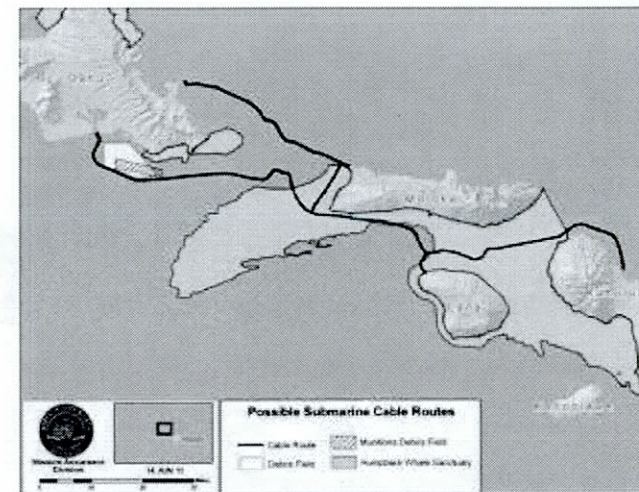


Executive Issues/Discussion

- The building of wind turbines on Lanai and Molokai to support consumption on Oahu is a hot issue within the local communities, with vocal oppositions citing environmental and cultural concerns
- Other issues include undersea munitions, maintenance dredging, sea floor debris, cable laying in Hawaiian Islands Humpback Whale National Maritime Sanctuary, and permitting
- Dec 2010 State of Hawaii (SOH) and DOE commenced programmatic EIS (PEIS) to evaluate "Big Wind"
- Dec 2011 HECO held Technical conference on draft RFP for 200 MW of RE generated on or delivered to Oahu
- Jun 2012 Governor Abercrombie signed Act 165, setting up a regulatory framework for the undersea cable implementation
- Aug 2012 SOH/DOE amended PEIS to broaden the range of efficiency and renewable technologies beyond "Big Wind", draft PEIS in 2013, final in 2014
- Sep 2012 HECO expects to submit final RFP for PUC approval

Background/Financial

- Hawaii is the most petroleum dependent state in the Union
 - 76% of electricity on Oahu is generated from petroleum-based fuels, which are greatly impacted by volatile oil prices
- SOH, through its Hawaii Clean Energy Initiatives, set a goal to achieve 70% clean energy (30% efficiency + 40% renewable) by 2030
- Oahu is the primary load center for electricity consumption, while the islands of Lanai and Molokai enjoy excellent wind resources
- The State of Hawaii HIREP "Big Wind" initiative is underway to evaluate impacts of generating up to 400MW of wind power on Lanai and Molokai and transmitting the power to Oahu through an undersea submarine cable
- Potential cable landing sites: Kaneohe Bay MCBH, Pearl Harbor, Iwilei (near Honolulu Harbor)



Possible Inter-Island Submarine Cable Routes

Recommendation/Way Forward

- Preponderance of issues facing the overall project, not just choosing a South Shore landing site, lessen the need for Navy to officially take position on which site to support
- Navy to maintain a neutral position on the development of Big Wind and the potential landing site location(s) until future surveys and analyses identify the extent of the munitions/debris fields and the impacts to Navy mission.

ENCLOSURE F

FOR OFFICIAL USE ONLY



**PMRF Update Brief
For U.S. REP Gabbard
27 August 2013**

**CAPT Bruce Hay
Commanding Officer PMRF**

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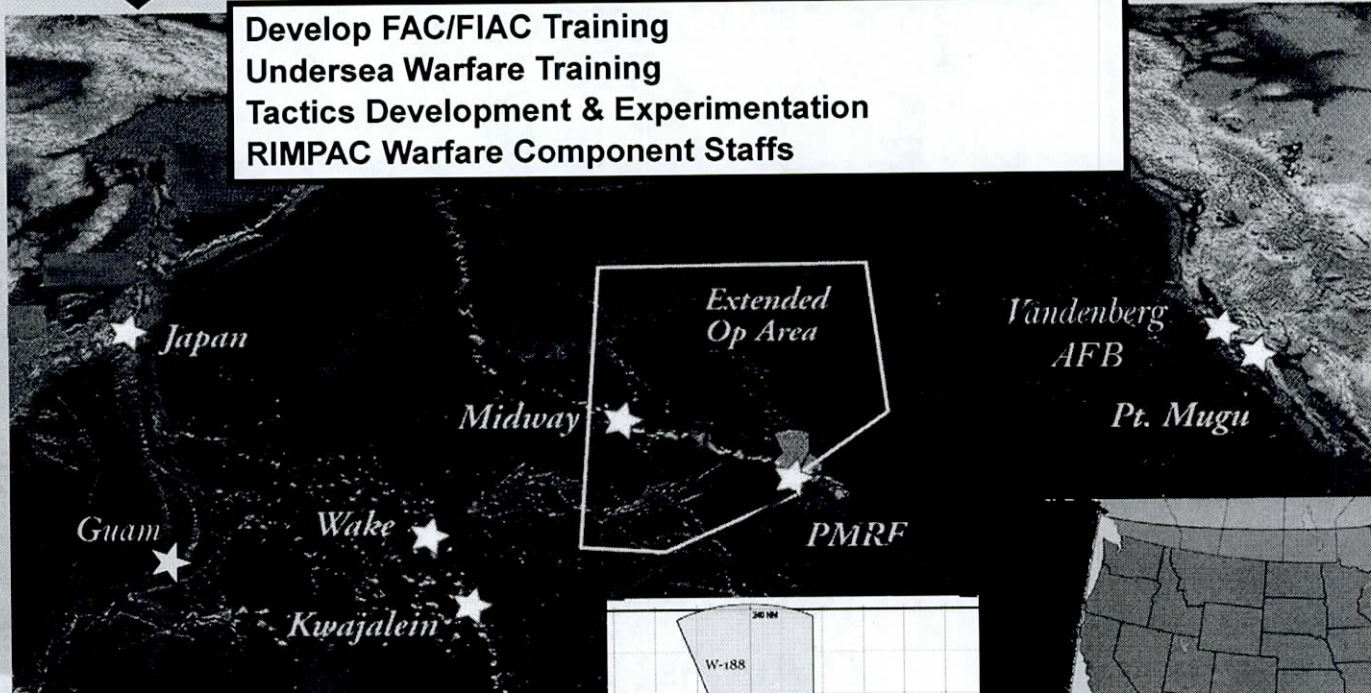
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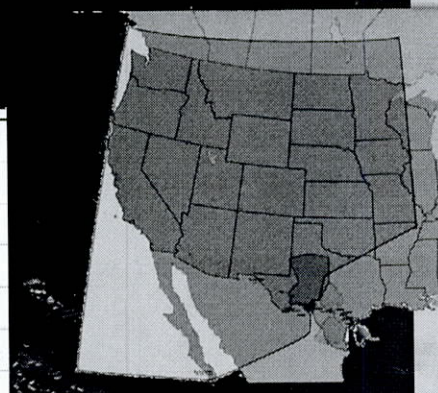
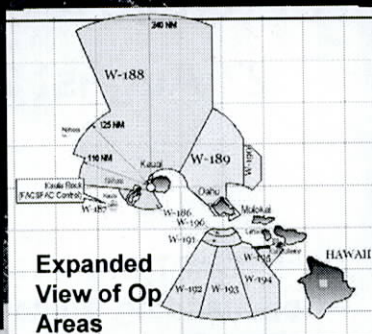
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Increased Fleet Training & Tactics Development

Develop FAC/FIAC Training
Undersea Warfare Training
Tactics Development & Experimentation
RIMPAC Warfare Component Staffs



- World's Largest Instrumented Range
- Unconstrained by Geography
- Provides Complex/Realistic Scenarios
- Limited Encroachment
- Minimal Air Traffic/Sea Traffic



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FOR OFFICIAL USE ONLY



Schedule – FY13 / FY14

• MDA

- FTM-20 – (Feb)
- FTM-19 Event 1 & 2 – (May)
- CTV-01 – (Jan)
- FTG-07 – (Jul)
- FTO-01 – Surge support to RTS
- Aegis Ashore – Construction and System Installation
- FTM-21 – (Sep)
- FTM-22 – (Oct FY14)
- AA FSC/CTV – (Q3FY14)

• Other T&E

- Minuteman III / GT-206 – (Nov)
- Arena Test – (Jan; Apr)
- Minuteman III / GT-207 – (Apr)
- CSSQT – DDG-112 (Jan/Feb/Mar), USCGC (Jul/Aug)
- Minuteman III / GT-208 – (Sep)
- Minuteman III / GT-209 – (Sep)
- Minuteman III / GT-210 – (Oct FY14)
- LEONIDAS/Super-Stryki/ORS-4 – (Q3FY14)

• Non-T&E, Non-Fleet Operations

- Hurricane Exercise – (Jun)
- Endangered Species Protection Surveys – (Oct)
- C-17 Training
- Community Model Rocket Launches
- Community RC Aircraft Rallies
- Observatory Star Viewing
- Whale Recording for NOAA and NUWC
- Citadel Pacific – (Sep)

• Fleet Training Events

- "Hollywood" SCC – (Feb; Aug)
- KOA KAI – (Jul)
- USN/USCG Unit Level Training – NSFS, Surface to Surface Gunnery, Opposed Strait Transit, ASWEX, EWEX, TOWEX, etc., (Periodic)
- SUBEX – PMRF Acoustic Range & Maui (Monthly)
- AIRASWEX – (Bi-monthly)
- ASMEX – Laser practice & Hellfire ops (Quarterly)
- SAMEX – SM-2 launches vs drone targets (Periodic)
- Marine Training Exercises (Periodic)
- Aerospace LIDAR Testing (USAF) – Semi-annual
- Various CNO and PACOM Projects – (No set schedule)
- RIMPAC-14 (Jul FY14)

• WESTPAC

- WESTPAC Multi-Sail – IVO Okinawa (Apr)
- ASMEX – Guam laser practice & Hellfire ops (Qtrly)
- EWEX – Guam (Dec)
- SUBEX – Guam and Okinawa (Jan)
- MARFORPAC Support – Forager Fury (Dec)

• Foreign Military Support

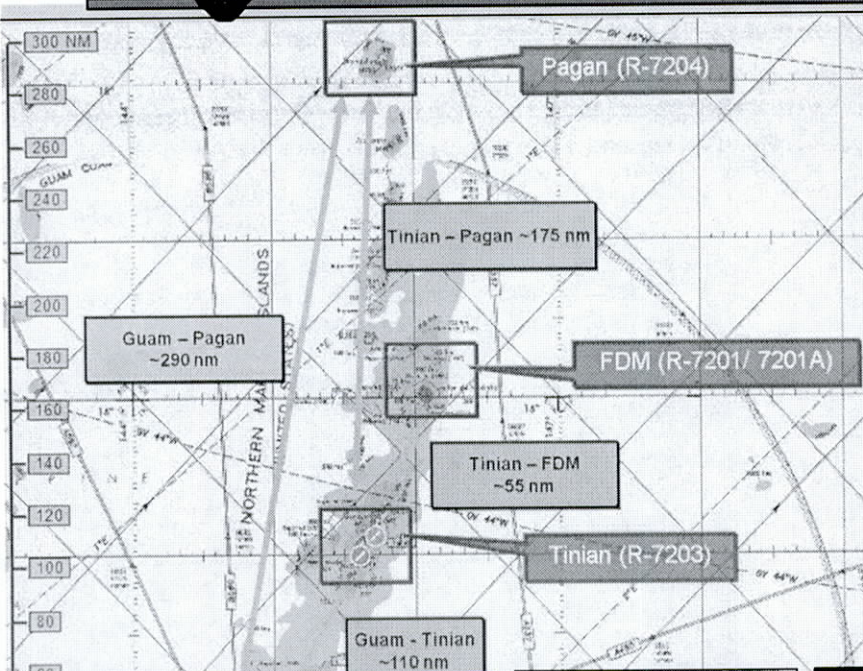
- JMSDF Unit Training – (Jul)
- JMSDF Unit Training – SUBEX/HARPOONEX, NSFS, Surface to Surface Gunnery, SAMEX (Nov)
- Australian MIDPAC Training – (Aug)

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WESTPAC Training

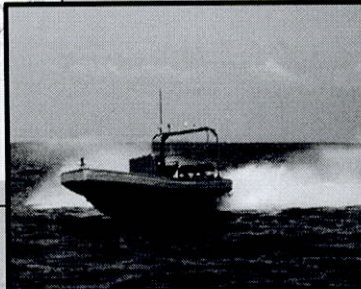
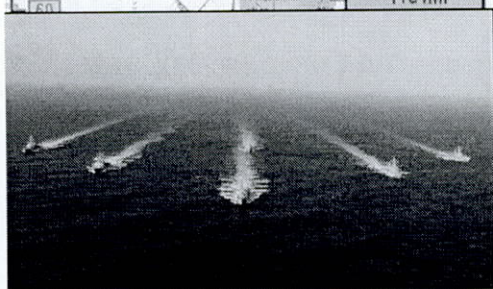


Current Training Ops:

- HSC-25 laser proficiency training (2x/month) & Hellfire ASMEX (Quarterly)
- Submarine Tactical Readiness Evaluation (Quarterly)
- Portable Underwater Range Deployment (1-2 annually)
- Periodic Electronic Warfare Services (Guam/Okinawa)

Recent & New Requirements:

- CVW-5 SFARP
- Joint Threat Emitter (JTE) Deployment
- Valiant Shield
- New Multi-Purpose Craft delivery (Guam & Japan)



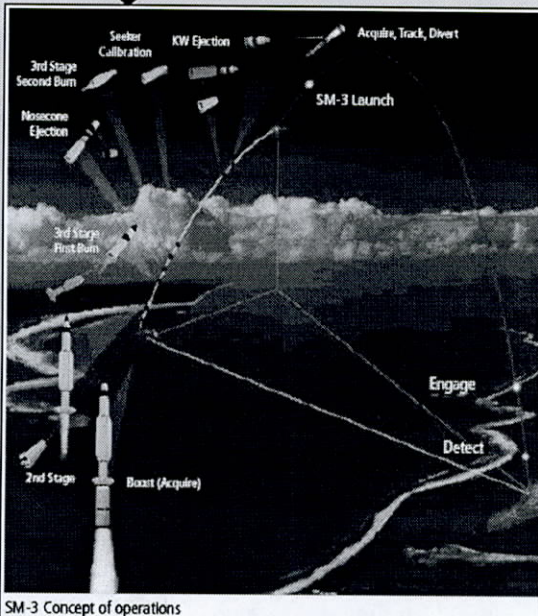
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1318 - 4

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MDA - Aegis BMD



SM-3 Concept of operations



- Began trials at PMRF in 1997
- Live Missile Launches starting 1999
 - 66+ Tracking and Intercept Events
 - » Low Altitude SM-2
 - » High Altitude SM-3
 - » Multi-National Tracking / Simulated Engagement Exercise (US, Japan, ROK)
 - » Japanese Cooperative Development
- Intercepts 2002 to present
 - 24 SM-3 Hit to Kill Intercept Events
 - FY13/14 missions:
 - » FTM-20 12 Feb 2013, Completed
 - » FTM-19 15 May 2013, Completed
 - » FTM-21 18/19 Sep 2013
 - » FTM-22 3/4 Oct 2013
- Test op tempo in out years
 - 1-2 campaigns at PMRF annually
 - Missions at RTS, NAWC Pt. Mugu & Wallops may impact number at PMRF

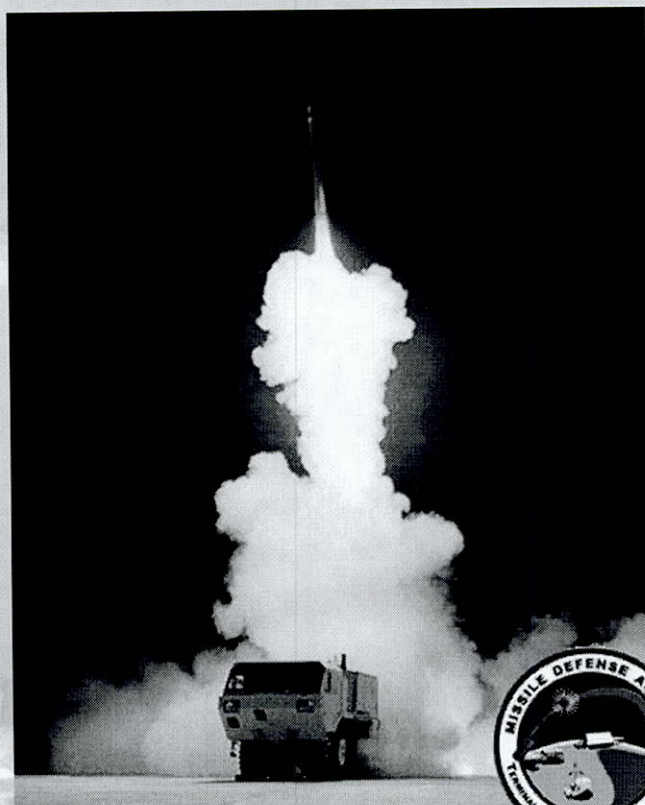
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MDA - THAAD

- Moved to PMRF from White Sands Missile Range in 2006
- 1st Test at PMRF Jan 2007
- 9 THAAD Interceptor Launches (7 missions) - All Successful
- Last Mission at PMRF: FTT-12 (Operational Test) - Conducted 04 Oct 2011
- Relocated to Reagan Test Site (RTS)
- Per MDA Integrated Master Test Plan:
 - Tentative plans are not to return to PMRF
 - Removed Flight Termination System (FTS) from the interceptor for cost savings



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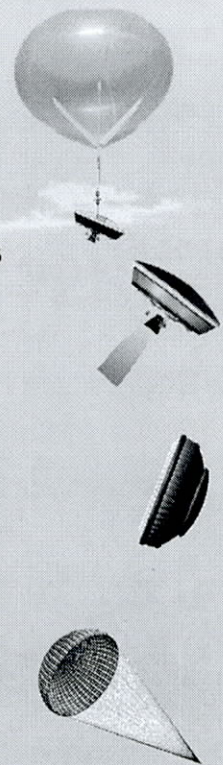
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NASA - Low Density Supersonic Decelerator (LDSD)

- Mars landing – reduced gravity & atmosphere
- Developing new supersonic inflatable decelerator and parachute technology
 - 6 and 9-meter diameter Mach 3.5 inflatable decelerators
 - 30-meter diameter Mach 2+ ringsail parachute
- Test in Earth's stratosphere at supersonic speeds
 - Simulate operation in the thin atmosphere of Mars
- Conops:
 - Launch payload to 100K+ feet on huge balloon
 - Detach, ignite rocket, payload soars to 200-300K feet
 - Freefall to earth, parachutes deploy, soft landing
- Environmental Assessment completed in May 2013
- 1 Demo in 2014, 4-5 Demos in 2015
- Recover balloons and payload



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1318 - 7



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Roundtable - Other Projects

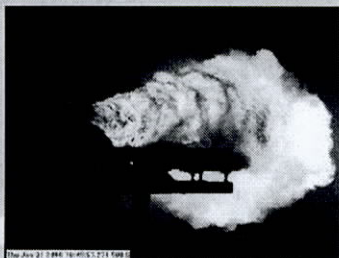


- **Advanced Radar Detection Laboratory (ARDEL)**

- Grand Opening 25 Jan 2012
- Radar Installation (S & X Band) FY14
- First test scheduled FY15

- **Super Strypi**

- Demonstrate micro-satellite launches from PMRF (new capability)
- Partners: USAF Operationally Responsive Space (ORS) and University of Hawaii – Hawaii Space Flight Laboratory
- First ever satellite launch from Hawaii: Mar 2014



- **Railgun & Hyper Velocity Projectiles**

- Land-based (32 MJ) and ship-based (20 MJ) versions
- Maneuvering projectiles designed for 5" guns and rail guns
- First test planned for FY17



- **UAV Training**

- Continued interest (DOD, NASA, and Industry) for pilot training at PMRF
- Logistics to Hawaii is greatest challenge

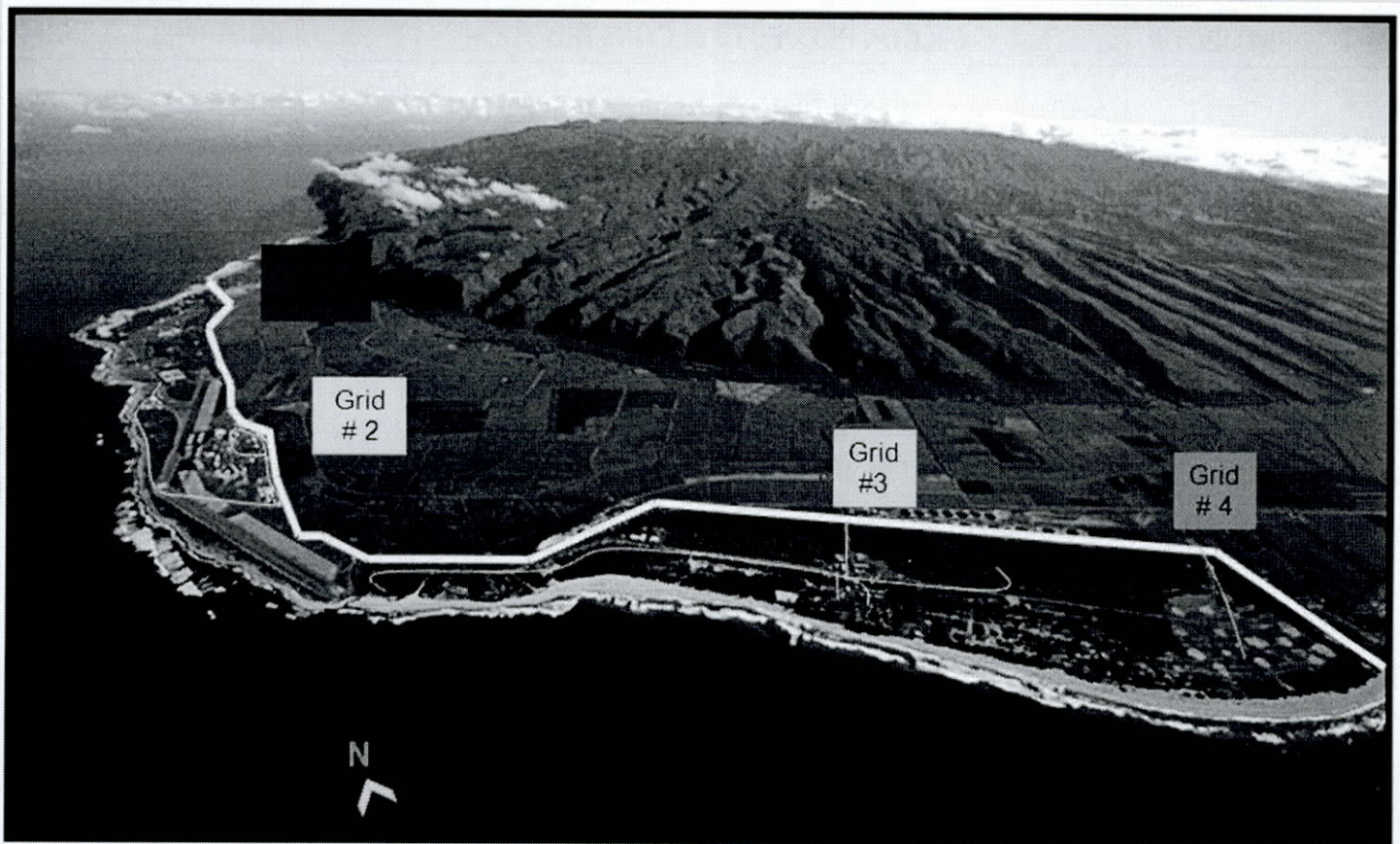


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PMRF Electrical Grids



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MILCON Project Program

| FY | PROJECT # | MILCON PROJECTS IN CONSTRUCTION | COST (\$M) | ECD |
|------|-----------|---|------------|--------|
| 2010 | P-627 | Aegis Ashore Missile Defense Test Center, MDA | \$59.5 | Aug-13 |
| 2012 | P-400 | Replace North Loop Electrical Distribution System, PMRF | \$5.6 | Jan-14 |

| FY | PROJECT # | MILCON PROJECTS, CNO INITIATIVES, SPECIAL PROJECTS | COST (\$M) |
|------|-----------|---|------------|
| 2013 | RM12-1499 | Install Energy Management System at PMRF | \$0.7 |
| 2015 | ST12-2141 | Nohili Culvert Repair, PMRF | \$1.1 |
| 2016 | P-409 | Consolidate Electrical Grids 2&3 | \$8.3 |
| 2016 | P-410 | Consolidated SEN Dan Inouye, Range Operations Complex | \$30 |
| 2018 | P-425 | Nohili Ditch Construct Pre-Fabricated Bridge | \$3.39 |
| 2018 | P-405 | Construct Installation Perimeter Fence | \$4 |
| 2018 | P-402 | Upgrade Power Plant & Electrical Distribution Sys, PMRF | \$44.37 |

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1318 - 10

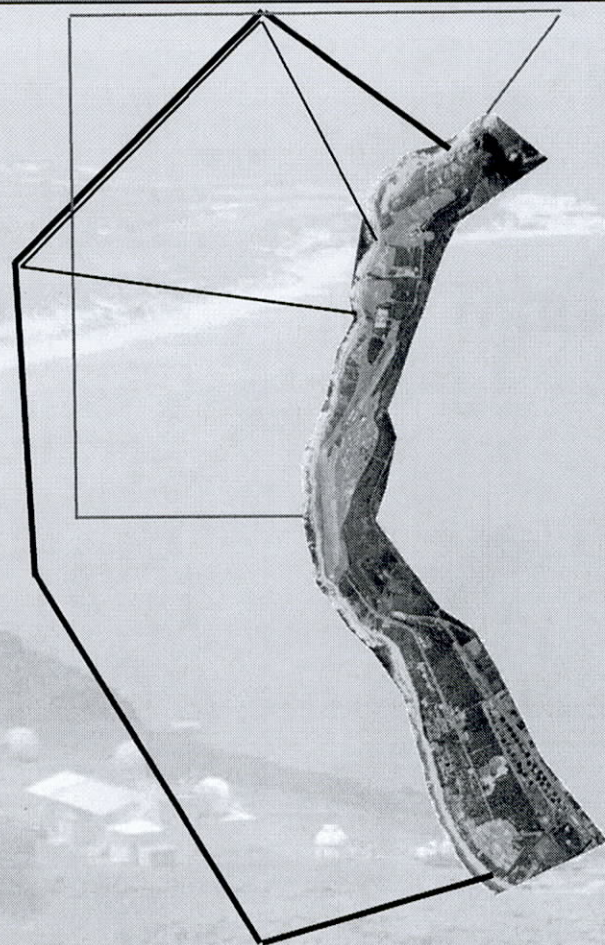
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Range Access and Security Initiative

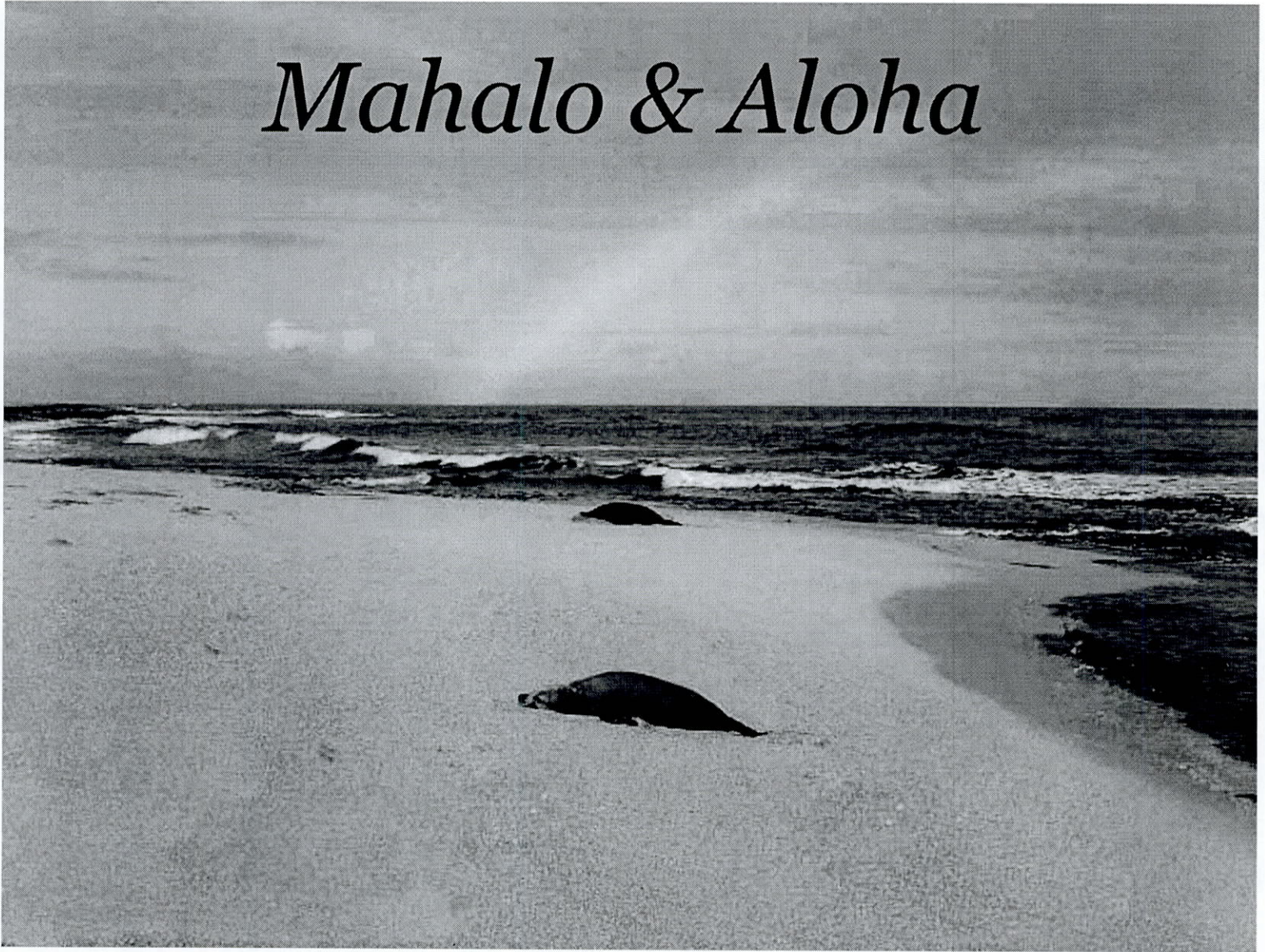
- Safety Zone – 33 CFR 165.1406
 - For over water launch safety only, no beach, no FPCON
 - Tied to STARS launcher
- Danger Zone – 33 CFR 334.1390
 - Triangle area, only addresses KTF launch area
 - Omits north launch pad
 - Omits south pad & Super Stypi
- Mod Danger Zone – 33 CFR 334.1390
 - Change July 2013
 - Expands current Danger Zone
 - Covers all launch areas
 - Has FPCON provision

▪ Zones not drawn to exact scale



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Mahalo & Aloha



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Aegis Ashore Footprint at PMRF

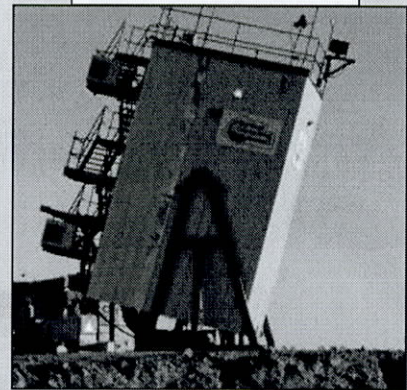
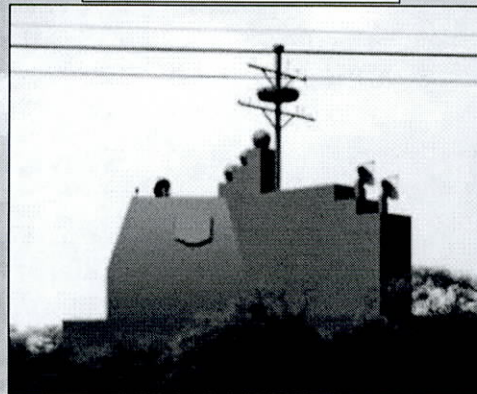
Range Operations

3.5 miles

Deckhouse
SPY-1D, Fire Control

MK-41 Launch Site

- \$59.5M MILCON
- \$600M Facility
- Aggressive timeline
- 1st flight test May 2014
- 5 SM-3 BLK IB tests planned



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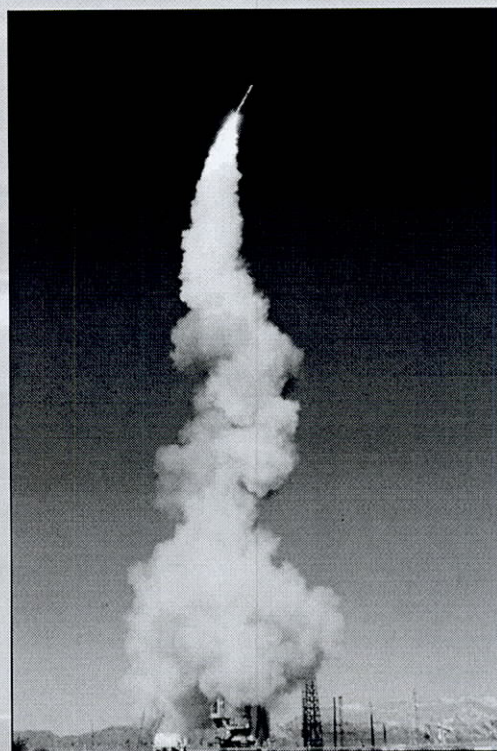
Standard Missile (SM) - 6

Mission

Provide ship self-defense, fleet area defense, and theater air defense for sea and littoral forces

Description

- Solid propellant, tail-controlled surface-to-air
- Incorporates a separable booster with thrust vector control; provides capability for projecting air defense to theater ranges
- Combines the legacy of SM-2 propulsion and ordnance with the AMRAAM active seeker
 - Allows for over-the-horizon engagements
 - Enhanced capability at extended ranges
 - Increased firepower



Platforms

Primary air defense weapon for AEGIS ships

Schedule

| | |
|--------------------|------------------|
| May 2010: | DT/OT |
| Dec 2010/Jan 2011: | OT |
| 2014: | Next OT Campaign |

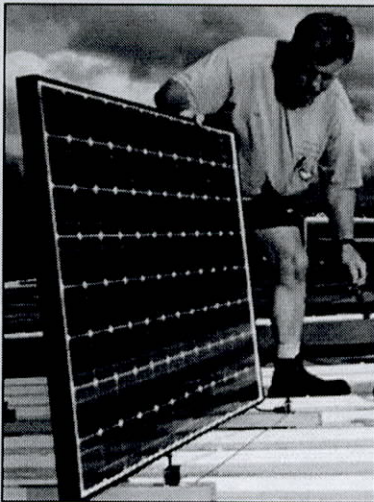
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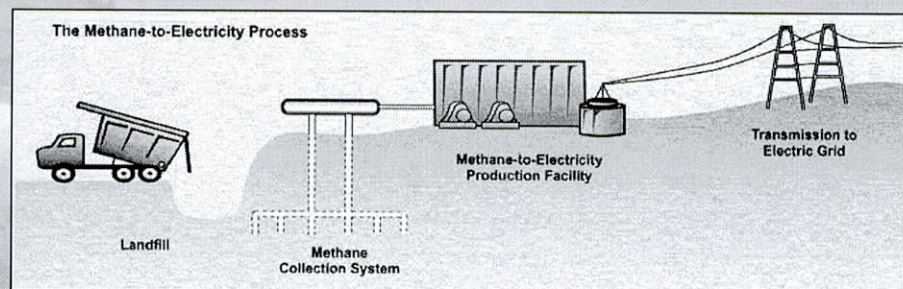
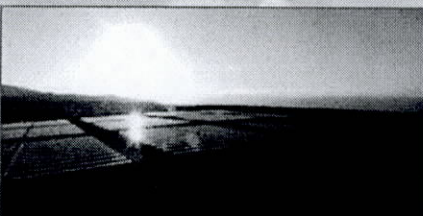
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Energy Security

PMRF GOAL = A 100% non-fossil fuel powered Navy Base by the year 2017



- A \$6.6M ARRA project, roof top PV systems on 10 PMRF buildings, 600KW of Renewable Energy (RE) to PMRF grid.
- Solar MACC. A Joint DoD & Hawaii power purchase agreement, 2-3 acre PV array field, add 1+ MW of RE.
- A Land Fill Gas to energy project partnership with the County of Kauai & KIUC to buy methane gas produced at the adjacent county landfill for use as a fuel source to generate 1.6+ MW of alt energy to the PMRF grid.
- Total generated power of initiatives ~ 3.2MW.



PMRF Goal: First Net Zero USN Base by 2017

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Commander, Navy Region Hawaii

Mission Readiness / Quality of Life Area Visit





Strategic Direction



- Warfighting First
- Operating Forward
- Always Ready



- Enable Warfighter Readiness (Fighter)
- Support Tomorrow's Force (Fleet)
- Take care of our people (Family)

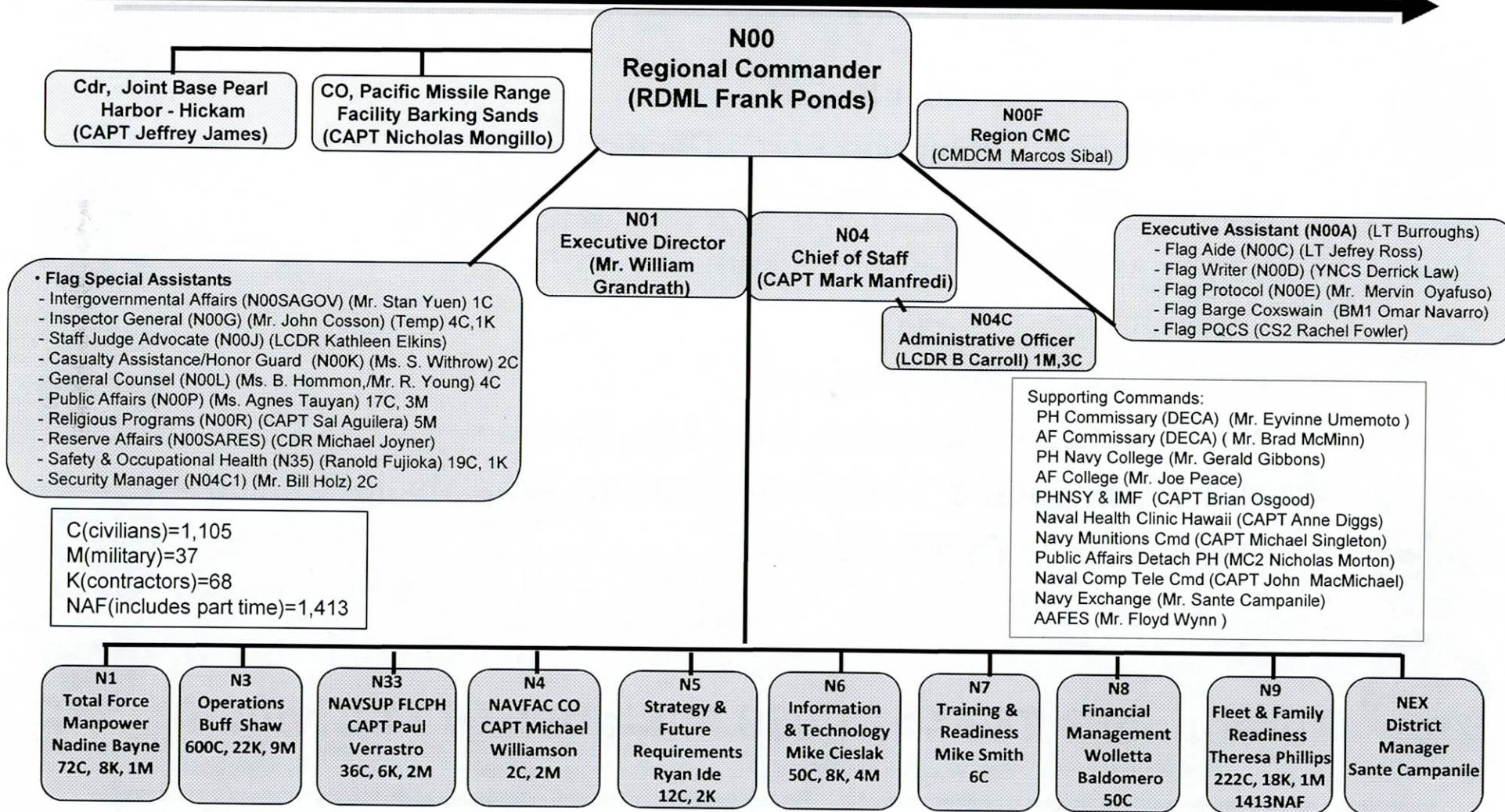


- a Culture of Readiness.
- , diverse, high-performing, and innovative workforce
- Efficiencies
- Infrastructure and Total Ownership Costs
- Strategic Engagement and Outreach

ALIGNMENT



CNRH Organization





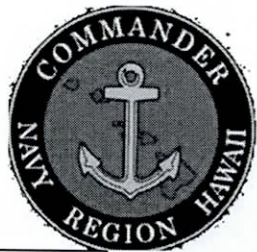
Commander, Navy Region Hawaii



- Commander, Pacific Fleet
- Commander, Submarine Force Pacific Fleet
- Commander, Naval Surface Group Middle Pacific
- Joint Base Pearl Harbor-Hickam
- Commander, 15th Wing
- Pearl Harbor Naval Shipyard
- Navy Munitions Command East Asia Division
- Naval Computer & Telecommunications Area Master Station
- Pacific Missile Range Facility

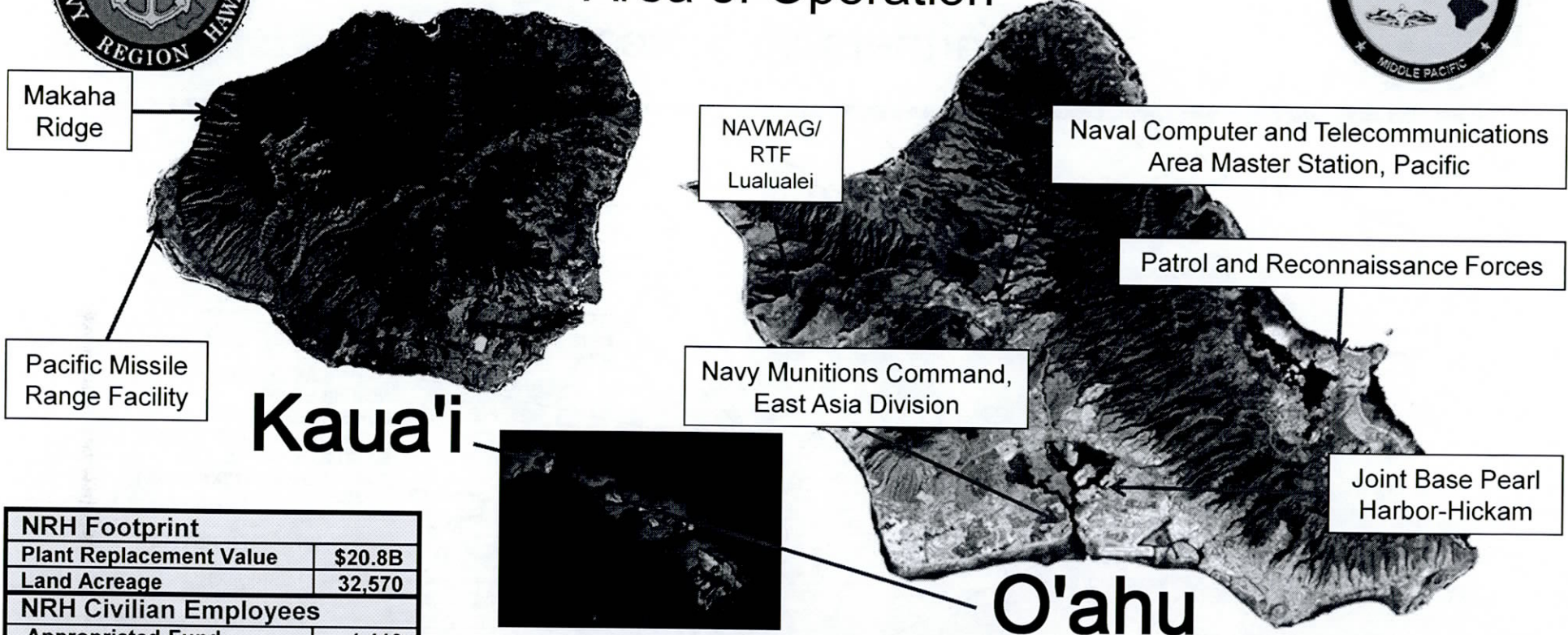


Personnel 3,783 => 1,069 Military / 2,714 Civilian



Navy Region Hawaii

Area of Operation



| NRH Footprint | |
|-------------------------------------|-------------------------------|
| Plant Replacement Value | \$20.8B |
| Land Acreage | 32,570 |
| NRH Civilian Employees | |
| Appropriated Fund | 1,110 |
| NAF | 1,584 |
| Contractor | 202 |
| GRAND TOTAL | 2896 |
| QOL – Housing | |
| Family Housing Units PPV | 7,096 |
| BQ (Barracks) - Bldgs. | 47 |
| NGIS (VQ) - Installations | 2 |
| - Bldgs. | 38 |
| QOL – MWR, Child Care, Fleet/Family | |
| Fitness Centers/Gyms | 8 |
| Fleet/Family Support Centers | 3 |
| Child Development Centers | 11/12 centers 1267/1387 sp |

Total Navy NRH Force Served

14,785 Navy Active Duty
 17,514 Navy Family Members
 519 Navy Selected Reserves
 16,405 Navy Civilians
 4,780 Navy Mil Retirees
 1 Navy Operational Support Centers

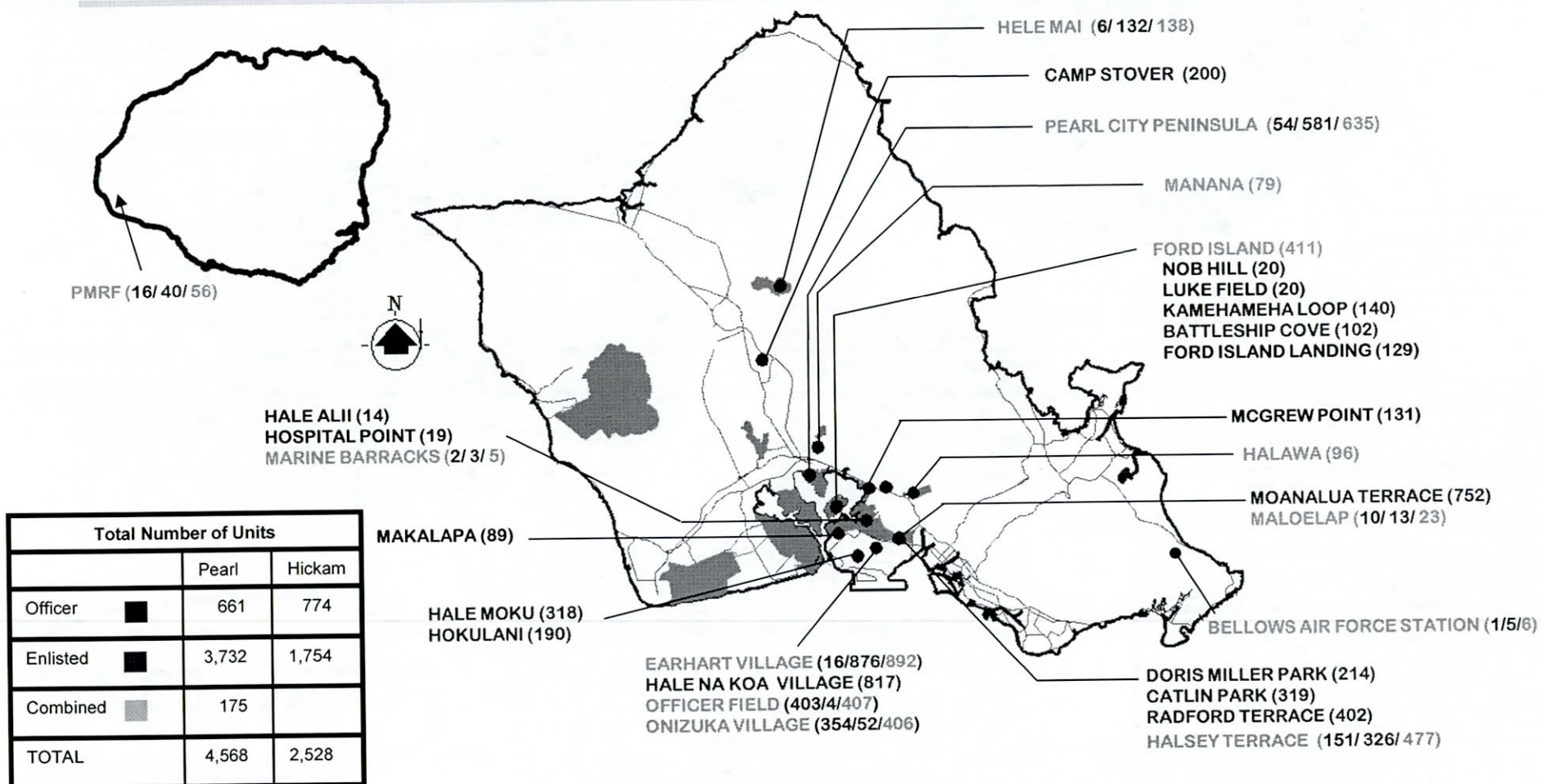
*Joint Base serves 5,432 active duty Air Force members and their families

TOTAL: 59,473



Family Housing

"A Partnership Success!"



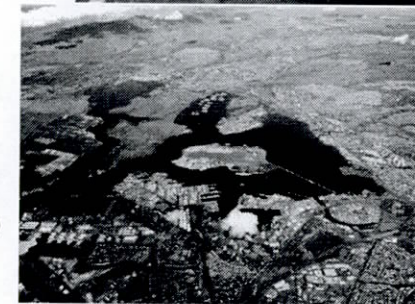
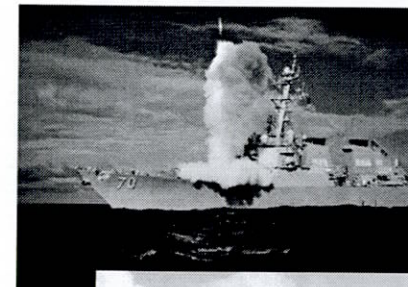


Joint Basing

Joint Base Pearl Harbor-Hickam (JBPHH)

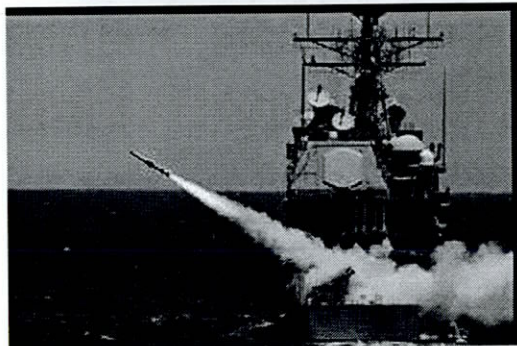


- Completed Two Years of FOC on 1 Oct 2012
- BRAC Law - 2005
 - Realign Hickam AFB and Naval Station Pearl Harbor
 - Establish Joint Base Pearl Harbor-Hickam, Navy-Led
- Joint Basing ...
 - preserves mission capabilities and unique Service identities
 - respects the history of installations
 - focuses on optimizing installation management
- Effects to Hawaii
 - Standardized processes (base access, contracts, public works/utilities, bachelor housing)
 - Single land / facilities owner
 - Single source delivering Base Operation Support services to both Navy and Air Force





Pearl Harbor Naval Shipyard



- Mitigating Force Structure Impacts
 - Managing FY13 budget reductions
 - Maintain industrial base
- Adjustments to Support Workload Level Loading
 - Facility, people, workload balance
 - Awarded Drydock 4 repairs for \$7.7 million
 - Environmental improvements
 - Preserve historic and operational value of asset
- Apprentice Program and Extensive Outreach Engagements
- **Supports Future Surface Ship Force Structure**

#1 Industrial employer in Hawaii, 4,500 strong!



Strategic Laydown



Waterfront Strat Laydown

- Ship/Sub
- FY2012 to 2020

P8/P3 Move (HI to WA)

- What remains at MCBH
- MC Air realignment – MV22
- 2013 to 2017



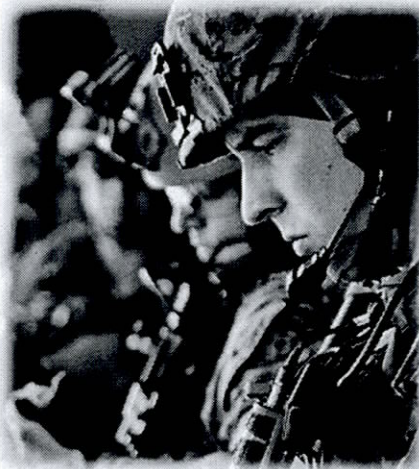
2020 Timeframe Navy Footprint Hawaii

III MEF restructure

- 2700 Marines to HI
- FY2020+

ARG

- Home port analysis
- In support of the Naval Board
- FY2020+



Impact of Force Structure...*Housing, Schools, Infrastructure...*



Key CNRH Issues/ Initiatives



ISSUES

- Human Resources Service delivery
- Personnel Support Detachment
- Kalaeloa Real Estate Concerns
- Installation access
- Child Youth Program
- Sexual Assault Prevention and Response (SAPR)
- Transition GPS (Goals, Plan, Succeed)
- MWR Funding

INITIATIVES

- Energy
- Environmental
- Education



Navy, Region Hawaii



Issues and Concerns



CIVILIAN HUMAN RESOURCES SERVICE DELIVERY (HRSD)



-
- **Mission:** To provide a full range of HR consulting and advisory functions to Navy customers on Oahu and Kauai.
 - **Issue:** DON HR service delivery model moves the HROs to Commands and realigns HRSC servicing by Major Commands effective April 2013. CNRH will receive HRSC services from HRSC SE, vice HRSC NW.
 - **Impact:** Reduced capability to provide HR services. NRH HRO will be cut from 54 to 5 billets and will no longer provide services to 43 commands.
 - **Way Forward:** CNRH HRO will plan ahead and strive to provide quality HR services to NRH with existing staffing constraints. As well, CNRH will seek resolution using POM process to restore HR capability.
-



PERSONNEL SUPPORT DETACHMENT



-
- **Mission:** PSD Pearl Harbor provides support to 276 ashore and afloat customer commands.
 - **Issue:** Organizational Alignment Changes. In October of 2013, PSD will realign to Naval Personnel Command(NPC). The last realignment in 2008 created problems in quality of service for military members.
 - **Impact:** With the upcoming realignment of PSD to NPC the relationship with Regions is uncertain and there is potential for miscommunication and poor service quality.
 - **Way Forward:** Maintain a strong communication flow between PSD and NRH as well as use lessons learned and corrective actions from the last realignment to continue highest quality of service possible. NRH will capture service degradation through the ICE system and other metrics in order to take corrective action and provide immediate feedback to N1.
-



Kalaeloa BRAC Conveyance



-
- **Mission:** Cutback on the Government footprint in Hawaii and convey excess land.
 - **Issue:** Since 2008, CNRH has conveyed 1,400 acres of excess land and infrastructure to various entities under BRAC authority, but over 200 acres still need to be conveyed. This process has taken longer than expected.
 - **Impact:** Because little to no recapitalization has occurred since 1993, in anticipation of conveyance, Navy continues to be held operationally and financially responsible for electrical outages, security, patrol, and removal of illegal dumping.
 - **Way Forward:** Divestiture of remaining property and infrastructure at Kalaeloa.
 - **BRAC Conveyances remaining:**
 - 213 acres currently encumbered by "critical habitat" for endangered plant species
 - 3.7 acres to Water/Waste Water system owner
 - Power transmission lines and associated infrastructure supplying USCG Station Barber's Pt and other tenants in area
 - **But current BRAC process needs to consider impact on future force structure**
-



Installation Access



- **Mission:** To ensure all personnel accessing DOD/DON installations are properly vetted per DOD/DON guidance.
- **Issue:** Personnel from NOAA and visitors to the Pacific Aviation Museum and the USS MISSOURI on Ford Island create challenges in the control of JBPHH base access.
- **Impact:** Potential security breach and administrative burden.
- **Way Forward:** Implementation of two new access control systems to better ID personnel seeking access to base; Navy Access Control Management System (NACMS) and Navy Access Control Visitor Management System (NACVMS). The systems authenticate CACs, Retiree, Dependents, and Local NACMS Credentials at perimeter gates as well as support drivers license and passport as ID credentials.



Child Youth Program



-
- **Mission:** Navy Child and Youth Programs (CYP) provide developmental child care and youth recreational programs and services. Specifically designed and operated to meet the unique needs of service members and their families.
 - **Issue:** Unable to hire qualified and properly credential personnel fast enough for the rapid expansion of the CYP, especially the CDC portion, which has doubled in the past year.
 - **Impact:** There is a waiting list for service members because CDC's are not operating at full capacity due to hiring difficulties.
 - **Way Forward:** While NRH is continuing to address its own challenges in the credentialing process, DoN needs to establish a standardized process to reduce the CNACI backlog.
-



Sexual Assault Prevention and Response (SAPR)



-
- **Mission:** To provide a standardized and consistent set of awareness and prevention efforts toward Sexual Assault as well as response to victims Navy wide.
 - **Issue:** Due to new DoD SAPR requirements of additional training and personnel. NRH is actively striving to hire a Regional SARC and two full-time Sexual Assault (SA) Victim Advocates (VAs).
 - **Impact:** Inability to staff the mandated personnel will result in noncompliance and the potential for inadequate assistance to victims.
 - **Way Forward:** Continue to push current plan forward to complete DoD requirements and NRH goals within this fiscal year.
-



Transition GPS (Goals, Plan, Succeed)



•**Mission:** Transition GPS is a comprehensive, mandatory program that provides opportunities and aids separating military to ensure the successful transition into a civilian career.

•**Issue:** New Veteran Opportunity to Work (VOW) public law mandates 100% participation as well as increased interagency involvement from Department of Labor and Department of Veterans Affairs trained professionals. NRH currently does not have enough available space for influx of new students.

•**Impact:** Current work space is at max capacity, thus we are unable to provide 100% of office and training requirements to transitioning service members.

•**Way Forward:** Continue to look for additional offices, classrooms, and computer training space to meet requirements . Factor this issue into our Installation and Area Development Plan. DoN needs to help facilitate a solution between DOL and VA to solve interagency issues.



MWR Funding



-
- **Mission:** Deliver high quality, customer focused programs and services that contribute to resiliency, retention, readiness and quality of life to military service members and their families.
 - **Issues:** Insufficient CAT A and CAT B funding received from CNIC to operate at expected level of service.
 - **Impact:** Reduced level of service. Recently implemented increase in fees and decrease in hours for CAT A and B activities.
 - **Way Forward:** Evaluate consolidation of multiple program locations and curtailing some CAT B activities for cost savings and efficiency. Continuing to pursue additional funding as well as recommend MW Funding allocations be reviewed/ revised CNIC wide to meet established COLs.
-



Navy, Region Hawaii



Initiatives and Successes



Energy Program



SECNAV 2012 Energy and Water Management Awards:

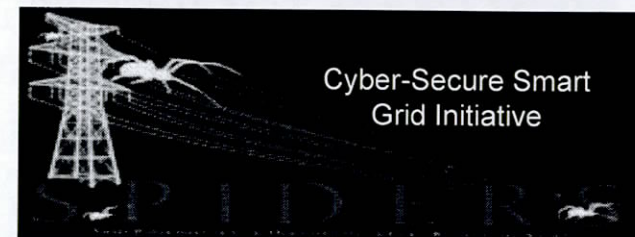
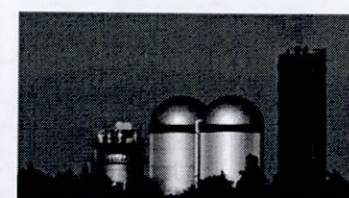
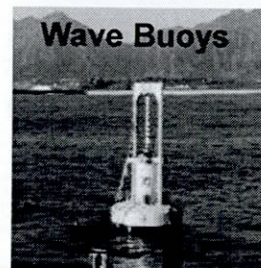
- Platinum: JBPHH (Large Shore Winner), USS Paul Hamilton
- Gold: PMRF
- Blue: USS Hopper
- RIMPAC 2012: Great Green Fleet

Goals and Objectives:

- Meet SECNAV Goals ... 50% Renewable Energy & Consumption Reduction by 2020
 - ~80 gigawatt-hours/year, equivalent to 10,200 homes
 - \$25 million in cost avoidance per year after 2020
- Achieve Net-zero Energy installations (CDC)
- Meet LEED Silver Standards
- Reduce CYBER vulnerabilities
 - Successful Phase I SPIDERS demo; Jan 25, 2013

Significant Projects:

| | <u>Est. Completion</u> |
|---|-------------------------------|
| • Power/Energy Purchase Agreement (PPA) - Solar MAC PV | 2014 |
| • Enhanced Use Lease – Biofuel Power Plant <ul style="list-style-type: none"> • 1 Aug 2012 Industry Forum, 15 Nov 2012 Request for Qualifications • Potential 50 MW capacity, capability to black start and power JBPHH | 2016 |
| • Enhanced Use Lease -- Multi-Megawatts PV | 2016 |
| • Landfill Gas Power Plant (PMRF) | In Development |
| • Sea Water Air Conditioning (JBPHH) | In Development |
| • RECP | *Completed pilot program 2011 |



Comprehensive Energy Security Plan...Generation Vs Consumption! 21



Environmental Stewardship



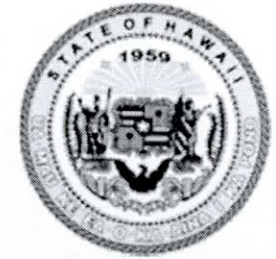
- Best in the Navy SECNAV award winning programs:
 - Pacific Missile Range Facility, Kauai – small installation
 - FLC – primary function fuel to the Fleet, environmental quality
 - Joint Base Pearl Harbor-Hickam – Historic preservation program
- **RIMPAC 2012- Great Green Fleet**
- Pearl Harbor National Landmark Historical Partnership
 - Robust environmental and historic preservation programs (NEPA and Section 106)
- Continuous environmental outreach
 - Earth Day fairs – one for military children; one for internal work force, included NOAA monk seal program
 - Annual Makahiki with Hawaiian Civic Clubs
 - Historic Preservation Awareness Day – Hawaii State Capitol
 - Participation in the University of Hawaii Environmental Studies Program



Sustaining, Protecting, Preserving



Improving and Enhancing Educational Opportunities



- **Interstate Compact on Education Opportunities for Military Children (MIC3)**

- HI commission model for other states

- **Help promote Hawaii public schools**

- Improved test scores
- Increased attendance rates

- **Joint Venture Education Forum (JVEF)**

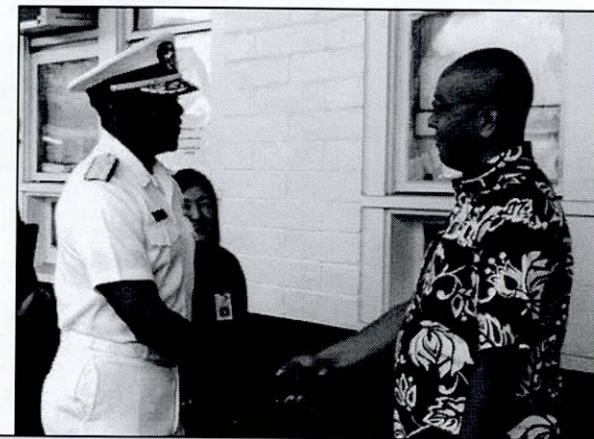
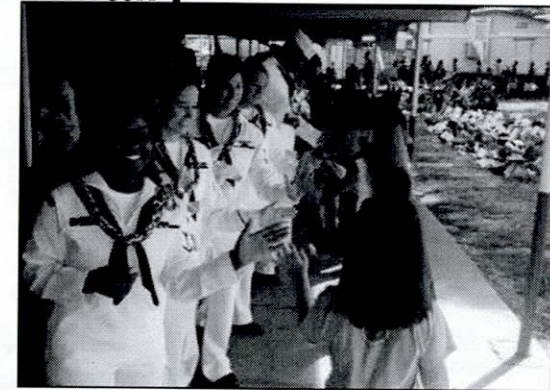
- Increase the cooperation between the local military and public school
- Builds strong, positive relationships between military and DOE leaders

- **Increase STEM Opportunities for Schools**

- PHNSY Robotics/SEAPERCH
- Student visits to high tech areas on base
- Bridge Primary and Secondary education

- **Outreach to School Administration**

- Host Principals/CAS visits to CNRH
- Build strong working relationships



Awareness/ Enrollment ... Good News Story

Mahalo Nui Loa

